

&lt;222&gt; (1)...(314)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1646

```

Met Ser Thr His Arg Met Glu Ile Ser Gln Cys Val Pro Leu Trp Glu
 1           5           10           15
Ser Met Leu Lys Gly Leu Glu Gly Gly Leu Glu Asn Gln Ala Leu Leu
      20           25           30
Phe Ala Val Phe Pro Gly Leu Tyr Met Val Thr Ile Pro Gly Asn Leu
      35           40           45
Thr Met Thr Met Val Ile Ile Leu Asp Thr His Leu His Phe Pro Val
      50           55           60
Asn Phe Phe Leu Gly Ala Ser Pro Phe Leu Asp Leu Gly His Ala Ser
65           70           75           80
Ile Ile Pro Asn Ala Leu Val Asn Phe Ser Ser Ser Lys Val Val
      85           90           95
Thr Phe Ala Gly Cys Ala Ala Arg Phe Phe Phe Ser Leu Leu Ser Thr
      100          105          110
Thr Glu Thr Phe Leu Leu Ala Val Met Ala Tyr Asp Cys Phe Val Ala
      115          120          125
Ile Cys Ser Leu Val Trp Cys Pro Val Thr Thr Cys Leu Ser Ile Cys
      130          135          140
Ile Ile Leu Gly Pro Gly Thr Tyr Cys Arg Val Cys Leu Ser Ser Ile
145          150          155          160
Val Gln Thr Gly Leu Met Phe Gln Leu Pro Ser Ala Gly Thr Asn His
      165          170          175
Ile Asp His Tyr Cys Asp Met Pro Gln Leu Leu Arg Leu Ala Cys Ala
      180          185          190
Cys Leu Ala Leu Asn Glu Leu Thr Lys Phe Ser Leu Cys Gly Leu Met
      195          200          205
Met Val Asn Ala Thr Leu Val Val Leu Val Ser Phe Gly Cys Val Thr
      210          215          220
Val Thr Ile Leu Arg Thr Pro Ser Gly Ser Gln Xaa His Lys Val Phe
225          230          235          240
Thr Cys Ser Ser His Val Met Thr Val Ser Leu Phe Asp Gly Thr Val
      245          250          255
Phe Val Thr Tyr Ala Gln Pro Gly Thr Met Glu Ser Met Glu Gln Gly
      260          265          270
Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu Gly Pro
      275          280          285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Arg Arg
      290          295          300
Leu Gly Gln Arg Gln Ala Leu Met Gly Arg
305          310

```

&lt;210&gt; 1647

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g564 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1647

```

Met Tyr Phe Phe Leu Gly Asn Leu Ser Phe Cys Asp Ile Cys Tyr Ser
 1           5           10           15
Thr Val Phe Ala Pro Lys Met Leu Val Asn Phe Leu Ser Lys His Lys
      20           25           30
Ser Ser Thr Phe Ser Gly Cys Val Leu Gln Ser Phe Pro Phe Ala Val
      35           40           45
Tyr Val Thr Thr Lys Asp Ile Leu Leu Ser Met Met Ala Tyr Asp His

```

50	55	60
Tyr Val Ala Ile Ala Asn Pro Leu Leu Tyr Thr Val Ile Met Ala Gln		
65	70	75
Lys Val Cys Ile Gln Met Val Leu Ala Ser Tyr Leu Gly Gly Leu Ile		80
	85	90
Asn Ser Leu Thr His Thr Ile Gly Leu Leu Lys Leu Asp Phe Cys Gly		95
	100	105
Pro Asn Ile Val Asn His Tyr Phe Cys Asp Val Pro Pro Leu Leu Arg		110
	115	120
Leu Ser Cys Ser Asp Ala His Ile Asn Glu Met Leu Pro Leu Val Phe		125
	130	135
Ser Gly Leu Ile Ala Met Phe Thr Phe Ile Val Ile Met Val Ser Tyr		140
145	150	155
Ile Cys Ile Ile Ile Ala Ile Gln Arg Ile His Ala Ala Glu Gly Arg		160
	165	170
Tyr Lys Ala Phe Ser Thr Cys Val Ser His Leu Thr Thr Val Thr Leu		175
	180	185
Phe Tyr Gly Ser Val Ser Phe Ser Tyr Ile Gln Pro Ser Ser Gln Tyr		190
	195	200
Ser Leu Glu Gln Glu Lys Val Leu Ala Val Phe Tyr Thr Leu Val Ile		205
	210	215
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys		220
225	230	235
Asp Ala Ala Lys Arg Leu Ile Trp Trp Gly Glu Lys		240
	245	250

&lt;210&gt; 1648

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g565 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1648

Met Ser Gly Glu Asn Val Thr Arg Val Gly Thr Phe Ile Leu Val Gly	
1	5
Phe Pro Thr Ala Pro Gly Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu	10
	20
Leu Thr Tyr Leu Phe Val Leu Val Glu Asn Leu Ala Ile Ile Leu Thr	25
	30
Val Trp Ser Ser Thr Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Ser	35
	40
Ser Met Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Thr Pro Lys	45
65	50
Met Leu Glu Gly Phe Leu Leu Gln Gln Lys Arg Ile Ser Phe Val Gly	55
	60
Cys Met Thr Gln Leu Tyr Phe Phe Ser Ser Leu Val Cys Thr Glu Cys	65
	70
Val Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His	75
	80
Pro Leu Arg Tyr His Val Leu Val Thr Pro Gly Cys Ala Ser Arg Leu	85
	90
Val Gly Phe Ser Phe Val Ser Gly Phe Thr Ile Ser Met Ile Lys Val	95
145	100
Cys Phe Ile Ser Ser Val Thr Phe Cys Gly Ser Asn Val Leu Asn His	105
	110
Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe	115
	120
Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val	125
	130
	135
	140
	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205

```

Phe Pro Leu Leu Ala Thr Met Leu Ser Tyr Ala His Ile Thr Leu Ala
 210          215          220
Val Leu Arg Ile Pro Ser Pro Arg Gly Cys Trp Arg Ala Phe Phe Thr
225          230          235          240
Cys Ala Ser His Leu Thr Val Val Thr Val Phe Tyr Thr Ala Leu Leu
          245          250          255
Phe Met Tyr Val Arg Pro Arg Pro Leu Tyr Ser Arg Ser Ser Asn Lys
          260          265          270
Leu Ile Ser Val Leu Tyr Thr Val Ile Thr Pro Ile Leu Asn Pro Leu
          275          280          285
Ile Tyr Cys Leu Arg Asn Lys Glu Phe Lys Asn Ala Leu Lys Asn Ser
          290          295          300
Arg Leu Asp Asp Cys Ala Val Glu Gly Arg Leu Ser Ser Leu Leu
305          310          315

```

&lt;210&gt; 1649

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g566 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(320)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1649

```

Met Ala Asp Val Asn Phe Thr Leu Val Thr Glu Phe Ile Leu Leu Glu
 1          5          10          15
Leu Thr Asp Arg Ala Glu Leu Lys Met Val Leu Phe Val Leu Phe Leu
          20          25          30
Leu Ile Tyr Thr Ile Ser Leu Val Gly Asn Ile Gly Met Leu Phe Leu
          35          40          45
Ile Tyr Val Thr Pro Lys Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
          50          55          60
Cys Leu Ser Phe Val Asp Ala Cys Tyr Ser Ser Val Phe Ala Pro Arg
65          70          75          80
Met Leu Leu Asn Phe Phe Val Glu Arg Glu Thr Ile Leu Phe Ser Ala
          85          90          95
Cys Ile Val Gln Tyr Phe Leu Phe Val Ser Leu Leu Thr Thr Glu Gly
          100          105          110
Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Met Ala Ile Val Asn
          115          120          125
Pro Leu Leu Tyr Thr Val Ala Met Thr Lys Ile Val Cys Ile Val Leu
          130          135          140
Ala Phe Gly Ser Cys Met Gly Gly Leu Ile Asn Ser Leu Thr His Thr
145          150          155          160
Ile Gly Leu Val Lys Leu Ser Phe Cys Gly Pro Asn Val Ile Ser His
          165          170          175
Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Ser Glu Thr
          180          185          190
Ser Met Asn Glu Leu Leu Leu Leu Ile Phe Ser Gly Ile Ile Ala Thr
          195          200          205
Leu Thr Phe Leu Thr Val Val Ile Ser Tyr Ile Phe Ile Val Ala Ala
          210          215          220
Ile Leu Arg Ile Arg Xaa Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr
225          230          235          240
Cys Thr Ser His Leu Ile Thr Val Thr Leu Phe Tyr Gly Ser Ile Ser
          245          250          255
Phe Ser Tyr Ile Gln Pro Asn Ser Gln Tyr Ser Leu Glu Gln Glu Lys

```

```
<210> 1650
<211> 313
<212> PRT
<213> Unknown (H38g567 protein)
```

<220>  
<223> Synthetic construct

```
<221> VARIANT
<222> (1)...(313)
<223> Xaa = Any Amino Acid
```

898

<210> 1651  
 <211> 314  
 <212> PRT  
 <213> Unknown (H38g568 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(314)  
 <223> Xaa = Any Amino Acid

<400> 1651  
 Ile Xaa Met Ala Asp Arg Asn Val Thr Val Ile Thr Glu Phe Ile Leu  
 1 5 10 15  
 Leu Gly Leu Thr Asp Asn Pro Glu Met Asn Val Val Leu Ser Val Leu  
 20 25 30  
 Phe Leu Leu Ile Tyr Leu Ile Thr Val Leu Gly Asn Phe Trp Ile Ile  
 35 40 45  
 Ile Ile Ile Leu Ala Ser Ala Gln Leu His Ser Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser Gln Leu Ala Phe Leu Asp Phe Cys Tyr Ser Ser Val Leu Ile  
 65 70 75 80  
 Pro Lys Met Leu Val Asn Tyr Ile Ala Gly Gln Lys Val Ile Ser Tyr  
 85 90 95  
 His Gly Cys Leu Leu Gln Tyr Ser Phe Val Ser Leu Phe Leu Thr Thr  
 100 105 110  
 Glu Cys Phe Leu Leu Ala Ala Met Ala Cys Asp Arg Tyr Leu Ala Val  
 115 120 125  
 Cys His Pro Leu His Tyr Lys Gly Leu Met Thr Pro Thr Phe Xaa Ile  
 130 135 140  
 Tyr Leu Val Thr Val Ser Tyr Leu Leu Gly Ser Val Asn Ser Leu Thr  
 145 150 155 160  
 His Leu Ser Ser Leu Leu Ser Leu Ser Phe Cys Gly Ser Asn Val Ile  
 165 170 175  
 Asn Arg Tyr Phe Cys Asp Ile Pro Leu Leu Phe Gln Leu Ser Cys Ser  
 180 185 190  
 Asn Thr Gln His Ser Lys Ile Leu Phe Thr Val Leu Ser Gly Ala Thr  
 195 200 205  
 Ser Val Thr Thr Phe Leu Ile Val Val Ser Ser Tyr Leu Val Ile Leu  
 210 215 220  
 Leu Ile Val Leu Lys Ile His Ser Thr Arg Gly Arg Asn Lys Ala Ile  
 225 230 235 240  
 Ser Thr Cys Ala Ser His Leu Met Val Val Thr Leu Phe Tyr Arg Thr  
 245 250 255  
 Val Ile Phe Thr Tyr Leu Gly Ala Asn Pro Gly Tyr Ser Gln Asp Arg  
 260 265 270  
 Pro Lys Ile Leu Pro Val Glu Cys Thr Leu Leu Leu Ser Ile Leu Asn  
 275 280 285  
 Leu Leu Ile Tyr Ser Val Arg Asn Arg Glu Val Lys Glu Ala Ile Lys  
 290 295 300  
 Ile Ile Ile Lys Arg Lys Ile Leu Pro Gln  
 305 310

<210> 1652  
 <211> 314  
 <212> PRT  
 <213> Unknown (H38g569 protein)

<220>

## &lt;223&gt; Synthetic construct

&lt;400&gt; 1652

```

Met Leu Met Asn Tyr Ser Ser Ala Thr Glu Phe Tyr Leu Leu Gly Phe
 1           5           10           15
Pro Gly Ser Glu Glu Leu His His Ile Leu Phe Ala Ile Phe Phe
 20           25           30
Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Met Ile Val
 35           40           45
Cys Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Gly His
 50           55           60
Leu Ser Ala Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Val Met
 65           70           75           80
Leu Trp Gly Leu Leu Leu Pro Gly Met Gln Thr Ile Tyr Leu Ser Ala
 85           90           95
Cys Val Val Gln Leu Phe Leu Tyr Leu Ala Val Gly Thr Thr Glu Phe
 100          105          110
Ala Leu Leu Gly Ala Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn
 115          120          125
Pro Leu Arg Tyr Asn Ile Ile Met Asn Arg His Thr Cys Asn Phe Val
 130          135          140
Val Leu Val Ser Trp Val Phe Gly Phe Leu Phe Gln Ile Trp Pro Val
 145          150          155          160
Tyr Val Met Phe Gln Leu Thr Tyr Cys Lys Ser Asn Val Val Asn Asn
 165          170          175
Phe Phe Cys Asp Arg Gly Gln Leu Leu Lys Leu Ser Cys Asn Asn Thr
 180          185          190
Leu Phe Thr Glu Phe Ile Leu Phe Leu Met Ala Val Phe Val Leu Phe
 195          200          205
Gly Ser Leu Ile Pro Thr Ile Val Ser Asn Ala Tyr Ile Ile Ser Thr
 210          215          220
Ile Leu Lys Ile Pro Ser Ser Gly Arg Arg Lys Ser Phe Ser Thr
 225          230          235          240
Cys Ala Ser His Phe Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu
 245          250          255
Phe Leu Tyr Val Lys Pro Lys Gln Thr Gln Ala Ala Asp Tyr Asn Trp
 260          265          270
Val Val Ser Leu Met Val Ser Val Val Thr Pro Phe Leu Asn Pro Phe
 275          280          285
Ile Phe Thr Leu Arg Asn Asp Lys Val Ile Glu Ala Leu Arg Asp Gly
 290          295          300
Val Lys Arg Cys Cys Gln Leu Phe Arg Asn
 305          310

```

&lt;210&gt; 1653

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g570 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1653

```

Met Met Gly Arg Arg Asn Asp Thr Asn Val Ala Asp Phe Ile Leu Thr
 1           5           10           15
Gly Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Met Leu Phe
 20           25           30
Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Leu Leu
 35           40           45
Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
 50           55           60

```

Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro  
 65 70 75 80  
 Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly  
 85 90 95  
 Cys Phe Ala Gln Met Phe Cys Phe Val Phe Leu Gly Thr Ala Glu Cys  
 100 105 110  
 Tyr Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Ser  
 115 120 125  
 Pro Leu His Tyr Thr Val Ile Met Pro Lys Arg Leu Cys Leu Ala Leu  
 130 135 140  
 Ile Thr Gly Pro Tyr Val Ile Gly Phe Met Asp Ser Phe Val Asn Val  
 145 150 155 160  
 Val Ser Met Ser Arg Leu His Phe Cys Asp Ser Asn Ile Ile His His  
 165 170 175  
 Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr  
 180 185 190  
 Asp Asn Thr Glu Met Leu Ile Phe Ile Ile Ala Gly Ser Thr Leu Met  
 195 200 205  
 Val Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr  
 210 215 220  
 Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Val Ser His Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile  
 245 250 255  
 Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln  
 260 265 270  
 Val Ala Pro Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Glu Val Lys Asn Ala Leu Ile Arg Val  
 290 295 300  
 Met Gln Arg Arg Gln Asp Ser Arg  
 305 310

&lt;210&gt; 1654

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g571 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(245)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1654

Met Ser Xaa Xaa Ile Phe Cys Leu Pro Lys Ile Ile Ile Thr Leu Leu  
 1 5 10 15  
 Gln Xaa Glu Trp Asp Ala Leu Asn Leu Glu Thr Arg Val Phe Leu Glu  
 20 25 30  
 Glu Asp Phe Pro Cys Gly Phe Ser Leu Trp Ile Val Arg Gln Leu Ser  
 35 40 45  
 Phe Phe Leu Glu Ile Asn Xaa Phe Ala His Leu Lys Lys Xaa Cys Arg  
 50 55 60  
 Lys His Thr Ser Thr Phe Ser Leu Ser Asn Leu Ala Phe Xaa Asp Phe  
 65 70 75 80  
 Cys Tyr Ala Ser Val Ile Thr Ser Lys Met Phe Gly Ser Phe Leu Tyr  
 85 90 95  
 Lys Gln Lys Lys Leu Thr Phe Asn Ala Leu Gly Cys Ser Leu Thr Phe  
 100 105 110  
 Met Thr Thr Glu Cys Leu Leu Leu Ala Phe Met Ala Cys Asp Gln Tyr

```

      115              120              125
Leu Val Ile Cys Asn Pro Pro Leu Tyr Met Val Thr Met Ser Pro Pro
      130              135              140
Gln Gly Val Cys Ile Gln Leu Met Pro Ala Ser Tyr Ser Tyr Ser Phe
145              150              155              160
Leu Met Thr Leu Ser His Tyr Leu Ser Ala Phe Arg Leu Pro Tyr Cys
      165              170
Pro Ser Val Ser Leu Met Phe Asn Gly Ser Leu Phe Leu Tyr Cys Thr
      180              185              190
Xaa Cys Ser Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe
      195              200              205
Tyr Thr Val Val Ile Pro Met Leu Ser Pro Leu Ile Trp Ser Leu Arg
      210              215              220
Asn Lys Asp Val Lys Asp Ala Leu Arg Lys Val Ile Val Asn Arg Asn
225              230              235              240
Gln Ala Leu Phe Cys
      245

```

&lt;210&gt; 1655

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g572 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1655

```

Met Ala Pro Glu Asn Phe Thr Arg Val Thr Glu Phe Ile Leu Thr Gly
 1              5              10              15
Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu
      20              25              30
Val Leu Tyr Val Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu
      35              40              45
Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
      50              55              60
His Leu Ala Ile Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys
65              70              75              80
Met Leu Met Asn Phe Leu Val Lys Lys Lys Thr Thr Ser Phe Tyr Glu
      85              90              95
Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Glu Val
      100              105              110
Met Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn,
      115              120              125
Pro Leu Leu Tyr Met Val Val Ser Arg Arg Leu Cys Leu Leu Leu
      130              135              140
Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser
145              150              155              160
Pro Cys Ile Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His
      165              170              175
Phe Tyr Cys Asp Ile Ala Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
      180              185              190
Tyr Ile Pro Glu Thr Ile Val Phe Ile Ser Ala Ala Thr Asn Leu Phe
      195              200              205
Phe Ser Met Ile Thr Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser
      210              215              220
Ile Leu Arg Ile Arg Ser Pro Glu Gly Arg Lys Lys Ala Phe Ser Thr
225              230              235              240
Cys Ala Ser His Met Ile Ala Val Thr Val Phe Tyr Gly Thr Met Leu
      245              250              255
Phe Met Tyr Leu Gln Pro Gln Thr Asn His Ser Leu Asp Thr Asp Lys
      260              265              270

```



Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu  
           275                                  280                                  285  
 Ile Tyr Ser Leu Arg Asn Asn Asp Val Asn Val Ala Leu Lys Lys Phe  
           290                                  295                                  300  
 Met Glu Asn Pro Cys Tyr Ser Phe  
 305                                  310

<210> 1656  
 <211> 161  
 <212> PRT  
 <213> Unknown (H38g573 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(161)  
 <223> Xaa = Any Amino Acid

<400> 1656  
 Ile Cys Gly Ser His Ser Gly Val Thr Glu Phe Cys Leu Leu Gly Phe  
   1                                  5                                  10                                  15  
 Pro Gly Ser Gln Xaa Val Cys His Leu Leu Pro Ser Ser Phe Val Ser  
                                   20                                  25                                  30  
 Ile Val Ile Arg Asn Tyr Val Ile Ile Ile Val Cys Val Glu Lys Cys  
                                   35                                  40                                  45  
 Leu Leu Phe Leu Leu Tyr Leu Phe Tyr Gly Asp Leu Ser Val Met Glu  
   50                                  55                                  60  
 Ile Leu Ile Thr Tyr Thr Ala Val Pro Leu Met Leu Arg Gly Cys Tyr  
  65                                  70                                  75                                  80  
 Phe Pro Xaa Phe Lys Gln Tyr Leu Xaa Xaa His Val Ser Val Gln Leu  
                                   85                                  90                                  95  
 Tyr Met Asn Phe Phe Gly Gly Thr Gln Glu Phe Ala Leu Leu Gly Val  
                                  100                                 105                                 110  
 Met Thr Val Asn His Tyr Val Ala Leu Cys Asn Ser Leu Lys Xaa Asn  
                                  115                                 120                                 125  
 Ile Ile Met Ser Ser Thr His Cys Ile Trp Leu Val Ile Val Leu Leu  
  130                                 135                                 140  
 Ile Gly Phe Leu Ser Glu Ile Trp Ser Val Tyr Ala Thr Phe Gln Leu  
 145                                 150                                 155                                 160  
 Pro

<210> 1657  
 <211> 324  
 <212> PRT  
 <213> Unknown (H38g574 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(324)  
 <223> Xaa = Any Amino Acid

<400> 1657  
 His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu  
   1                                  5                                  10                                  15  
 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser  
                                   20                                  25                                  30  
 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser

```

      35      40      45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe
  50      55      60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Met
  65      70      75      80
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
      85      90      95
His Glu Gly Cys Leu Thr Gln Met Phe Phe Leu Val Leu Phe Ala Cys
      100      105      110
Ile Glu Gly Met Ile Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
      115      120      125
Ile Cys Arg Pro Leu Asn Tyr Pro Val Ile Val Asn Pro His Leu Cys
      130      135      140
Val Phe Phe Ile Leu Met Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
      145      150      155      160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
      165      170      175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
      180      185      190
Ser Asp Ser Val Ile Asn Ser Ile Phe Thr Tyr Phe His Ser Thr Met
      195      200      205
Phe Ala Phe Leu Pro Ile Ser Ala Ile Leu Leu Ser Tyr Tyr Lys Ile
      210      215      220
Val Thr Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
      225      230      235      240
Phe Ser Thr Cys Asp Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly
      245      250      255
Thr Asp Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
      260      265      270
Asn Gly Val Val Ala Ser Met Met Tyr Ala Val Val Thr Pro Met Leu
      275      280      285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
      290      295      300
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
      305      310      315      320
Phe Phe Leu Cys

```

&lt;210&gt; 1658

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g575 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(320)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1658

```

His Thr Lys Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
  1      5      10      15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Ser
      20      25      30
Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
      35      40      45
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Cys Phe Phe Leu
      50      55      60
Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
      65      70      75      80

```

```

Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Glu
      85                      90                      95
Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Thr Glu
      100                    105                    110
Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys
      115                    120                    125
Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe
      130                    135                    140
Phe Ile Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
      145                    150                    155                    160
Ser Xaa Val Val Leu Gln Phe Thr Phe Phe Asn Asn Val Glu Ile Ser
      165                    170                    175
Asn Phe Val Cys Glu Pro Ser Gln Leu Val Asn Leu Ala Ser Ser Asp
      180                    185                    190
Ser Val Val Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly
      195                    200                    205
Phe Leu Pro Ile Leu Gly Val Leu Leu Ser His Tyr Lys Ile Val Pro
      210                    215                    220
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Val Phe Ala
      225                    230                    235                    240
Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly Thr Gly
      245                    250                    255
Ile Asp Met Tyr Leu Thr Ser Ala Val Ser Pro Pro His Arg Asn Gly
      260                    265                    270
Val Val Ala Ser Val Met Tyr Ala Val Phe Thr Pro Met Leu Asn Pro
      275                    280                    285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg
      290                    295                    300
Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser
      305                    310                    315                    320

```

&lt;210&gt; 1659

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g576 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(270)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1659

```

Val Ser Leu Ile Thr Tyr Leu Ile Thr Val Met Ser Asn Leu Gly Met
  1      5      10
Asn Ile Leu Thr Lys Leu Asp Ser His Leu Tyr Thr Pro Val Val Tyr
      20      25      30
Phe Leu Ile Lys His Ile Phe Phe Ile Asp Phe Tyr Asn Cys Ile Val
      35      40      45
Ile Tyr Thr Asn Lys Met Leu Asn Phe Val Val Asp Gln Asn Asn Ile
      50      55      60
Ser Tyr Tyr Ala Cys Ala Thr His Met Thr Phe Met Phe Ile Ile
      65      70      75      80
Thr Glu Leu Leu Ile Leu Val Ser Met Ala Tyr Asp Cys Tyr Val Val
      85      90      95
Asn Ser Asn Pro Leu Phe Tyr Ile Val Ile Met Cys Leu Xaa Leu Xaa
      100     105     110
His Val Leu Met Ser Ile Pro Tyr Leu Cys Asn Thr Phe Gln Ser Leu
      115     120     125
Ile Ile Thr Ile Asp Leu Phe Leu Thr Phe Cys Ser Phe Ile Ile Ser

```

130		135		140
His Phe Tyr Cys Tyr Asp Val Leu Phe Phe His Met Leu Cys Ser Asn				
145		150		155
Ala Gln Glu Arg Glu Leu Leu Ile Thr Leu Leu Thr Ala Phe Asn Leu				
	165		170	175
Ile Pro Ser Leu Leu Val Leu Leu Val Leu Asn Ile Leu Ile Leu Leu				
	180		185	190
Ala Ile Cys Xaa Met His Ser Ala Leu Gly Arg Lys Lys Ala Phe Ser				
	195	200		205
Met Cys Gly Ser His Leu Thr Met Val Val Met Phe Tyr Gly Ser Leu				
	210	215		220
Leu Phe Asp Met Asp Lys Val Ala Ser Leu Phe Tyr Thr Leu Met Ile				
225		230		235
Leu Arg Phe Asn Leu Ile Tyr Ser Phe Ser Asn Leu Gly Val Lys				
	245		250	255
Asn Val Phe Tyr Arg Val Phe Lys Asn Xaa Cys Lys Leu Cys				
	260	265		270

&lt;210&gt; 1660

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g577 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(128)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1660

Met Gly Gly Lys Gln Pro Trp Val Thr Glu Phe Ile Leu Val Gly Phe		
1	5	10
Gln Leu Cys Ala Glu Met Glu Ile Phe Leu Ser Cys Ile Phe Ser Arg		
	20	25
Phe Tyr Ala Phe Ser Leu Leu Arg Asn Gly Met Asn Met Gly Leu Thr		
	35	40
Tyr Leu Asp Asp Arg Asp Asp Arg Leu His Thr Leu Ile Tyr Ile Phe		
	50	55
Leu Ser His Leu Ala Ile Asn Asp Met Tyr Tyr Ala Ser Asn Asn Val		
65	70	75
Pro Lys Arg Gln Val Asn Gln Met Asn Gln Lys Lys Lys Asn Phe Val		
	85	90
Leu Trp Ile Lys Gln Ile Phe Leu Tyr Leu Ala Phe Ala His Thr Glu		
	100	105
Cys Leu Ile Xaa Ala Met Met Ser Cys Asn Arg Tyr Val Ala Ile Cys		
	115	120
		125

&lt;210&gt; 1661

&lt;211&gt; 307

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g578 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1661

Met Gly Gln His Asn Leu Thr Val Leu Thr Glu Phe Ile Leu Met Glu		
1	5	10
Leu Thr Arg Arg Pro Glu Leu Gln Ile Pro Leu Phe Gly Val Phe Leu		
	20	25
		30

```

Val Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Thr Met Ile Ile Leu
    35                                40                                45
Thr Lys Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Ser Ile Arg
    50                                55                                60
His Leu Ala Ser Val Asp Leu Gly Asn Ser Thr Val Ile Cys Pro Lys
    65                                70                                75                                80
Val Leu Ala Asn Phe Val Val Asp Arg Asn Thr Ile Ser Tyr Tyr Ala
    85                                90                                95
Cys Ala Ala Gln Leu Ala Phe Phe Leu Met Phe Ile Ile Ser Glu Phe
    100                                105                                110
Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
    115                                120                                125
Pro Leu Leu Tyr Tyr Val Ile Met Ser Gln Arg Leu Cys His Val Leu
    130                                135                                140
Val Gly Ile Gln Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Phe Thr
    145                                150                                155                                160
Ile Lys Ile Phe Thr Leu Thr Phe Cys Gly Ser Asn Val Ile Ser His
    165                                170                                175
Phe Tyr Cys Asp Asp Val Pro Leu Leu Pro Met Leu Cys Ser Asn Ala
    180                                185                                190
Gln Glu Ile Glu Leu Leu Ser Ile Leu Phe Ser Val Phe Asn Leu Ile
    195                                200                                205
Ser Ser Phe Leu Ile Val Leu Val Ser Tyr Met Leu Ile Leu Leu Ala
    210                                215                                220
Ile Cys Gln Met His Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
    225                                230                                235                                240
Cys Gly Ser His Leu Thr Val Val Val Val Phe Tyr Gly Ser Leu Leu
    245                                250                                255
Phe Met Tyr Met Gln Pro Asn Ser Thr His Phe Phe Asp Thr Asp Lys
    260                                265                                270
Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu
    275                                280                                285
Ile Tyr Ser Leu Arg Asn Glu Val Lys Asn Ala Phe Tyr Lys Leu
    290                                295                                300
Phe Glu Asn
305

```

&lt;210&gt; 1662

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g579 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(218)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1662

```

Leu Pro Asp Ile Ser Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
    1                                5                                10                                15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
    20                                25                                30
Gln Met Ser Leu Phe Val Ile Phe Gly Gly Met Glu Glu Ser Met Leu
    35                                40                                45
Leu Ser Val Met Ala Tyr Asp Trp Phe Val Ala Ile Cys His Pro Leu
    50                                55                                60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
    65                                70                                75                                80
Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ala Gln Leu His Asn Leu

```

Ile	Ala	Leu	Gln	Val	Thr	Cys	Phe	Lys	Asp	Val	Glu	Ile	Pro	Asn	Phe
			100					105					110		
Phe	Cys	Asp	Pro	Ser	Gln	Leu	Pro	His	Leu	Ala	Cys	Cys	Asp	Thr	Phe
		115					120					125			
Thr	Ile	Asn	Ile	Ile	Met	Tyr	Phe	Pro	Ala	Ala	Ile	Phe	Gly	Phe	Leu
	130				135						140				
Pro	Ile	Ser	Gly	Thr	Leu	Phe	Ser	Tyr	Ser	Lys	Ile	Val	Ser	Ser	Ile
145					150					155					160
Leu	Arg	Val	Ser	Ser	Ser	Gly	Gly	Arg	Tyr	Lys	Ala	Leu	Ser	Thr	Cys
				165				170						175	
Gly	Ser	His	Val	Ser	Val	Val	Cys	Xaa	Val	Tyr	Gly	Thr	Gly	Val	Gly
		180					185					190			
Gly	Tyr	Leu	Ser	Ser	Asp	Val	Ser	Phe	Ser	Pro	Arg	Lys	Gly	Ala	Val
	195					200						205			
Ala	Ser	Val	Met	Tyr	Ala	Val	Val	Thr	Pro						
	210					215									

&lt;210&gt; 1663

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g580 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(227)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1663

Met	Tyr	Phe	Phe	Phe	Ser	Asn	Leu	Ser	Leu	Pro	Asp	Asp	Gly	Phe	Thr
1				5				10					15		
Ser	Thr	Thr	Val	Pro	Lys	Met	Ile	Val	Asp	Ile	Gln	Ser	His	Ser	Arg
		20					25					30			
Val	Thr	Ser	Tyr	Ala	Gly	Cys	Leu	Thr	Gln	Met	Ser	Leu	Phe	Ala	Ile
	35					40					45				
Phe	Gly	Gly	Met	Glu	Glu	Ser	Met	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp
50					55					60					
Arg	Phe	Val	Ala	Ile	Cys	His	Pro	Leu	Cys	His	Ser	Ala	Ile	Thr	Asn
65				70					75						80
Pro	Cys	Phe	Cys	Gly	Phe	Leu	Val	Leu	Leu	Ser	Phe	Phe	Phe	Leu	Ser
			85					90					95		
Leu	Leu	Asp	Ala	Gln	Leu	His	Asn	Leu	Ile	Ala	Leu	Gln	Arg	Thr	Cys
		100					105					110			
Phe	Lys	Asp	Val	Glu	Ile	Pro	Asn	Phe	Phe	Cys	Asp	Pro	Ser	Gln	Phe
	115					120					125				
Pro	Arg	Leu	Ala	Cys	Cys	Gly	Thr	Phe	Thr	Asn	Asn	Ile	Ile	Met	Tyr
	130				135						140				
Phe	Pro	Ala	Ala	Ile	Phe	Gly	Phe	Leu	Pro	Ile	Ser	Gly	Thr	Leu	Phe
145				150					155						160
Ser	Tyr	Asp	Lys	Ile	Val	Phe	Ser	Ile	Leu	Arg	Val	Ser	Ser	Ser	Gly
		165					170						175		
Gly	Lys	His	Lys	Ala	Phe	Ser	Thr	Arg	Gly	Ser	His	Leu	Ser	Val	Val
	180					185						190			
Cys	Xaa	Phe	Tyr	Gly	Thr	Gly	Ile	Gly	Gly	Tyr	Leu	Ser	Ser	Asp	Val
	195					200					205				
Ser	Ser	Ser	Pro	Arg	Lys	Ala	Ala	Val	Ala	Ser	Val	Met	Tyr	Thr	Val
	210				215						220				
Ala	Ile	Pro													
225															

<210> 1664  
 <211> 194  
 <212> PRT  
 <213> Unknown (H38g581 protein)

<220>  
 <223> Synthetic construct

<400> 1664  
 Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Ile  
 1 5 10 15  
 Ser Cys Val Pro Gly Met Leu Val Asn Leu Trp Glu Pro Lys Lys Thr  
 20 25 30  
 Ile Ile Leu Leu Gly Cys Ser Val Gln Phe Phe Ile Phe Leu Ser Leu  
 35 40 45  
 Gly Thr Thr Glu Cys Ile Leu Thr Val Met Ala Phe Asp Arg Tyr  
 50 55 60  
 Met Ala Ile Cys Gln Pro Leu His Tyr Ala Thr Ile Val His Pro Leu  
 65 70 75 80  
 Leu Cys Trp Gln Leu Ala Ser Val Ala Trp Val Met Ser Leu Val Glu  
 85 90 95  
 Ser Val Val Gln Thr Pro Ser Thr Leu His Leu Pro Phe Cys Pro Asp  
 100 105 110  
 Arg Gln Val Asp Asp Phe Val Cys Glu Val Pro Ala Leu Ile Arg Leu  
 115 120 125  
 Ser Cys Glu Asp Thr Ser Tyr Asn Glu Ile Gln Leu Ala Val Ala Ser  
 130 135 140  
 Val Phe Ile Leu Ala Val Pro Leu Ser Leu Ile Leu Val Ser Tyr Gly  
 145 150 155 160  
 Ala Ile Ala Trp Ala Val Leu Arg Thr Asn Ser Ala Lys Gly Gln Arg  
 165 170 175  
 Lys Ala Phe Gly Thr Cys Ser Ser His Leu Thr Val Val Thr Leu Phe  
 180 185 190  
 Tyr Ser

<210> 1665  
 <211> 320  
 <212> PRT  
 <213> Unknown (H38g582 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(320)  
 <223> Xaa = Any Amino Acid

<400> 1665  
 Met Val Ser Ser Asn Gln Thr Ser Pro Val Leu Gly Phe Leu Leu Leu  
 1 5 10 15  
 Gly Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu Ile  
 20 25 30  
 Leu Leu Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu  
 35 40 45  
 Val Thr Ile Leu Asp Ser Arg Leu Asp Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Val Leu  
 65 70 75 80  
 Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Ala Cys Ala

				85					90					95			
Val	Gln	Met	Phe	Leu	Ser	Leu	Ala	Met	Gly	Ala	Thr	Glu	Cys	Val	Leu		
			100					105					110				
Leu	Ser	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu		
		115					120					125					
Trp	Tyr	Pro	Glu	Val	Met	Asn	Lys	Ala	Thr	Tyr	Val	Pro	Met	Ala	Ala		
	130					135					140						
Gly	Ser	Trp	Val	Ala	Gly	Ser	Leu	Thr	Ala	Met	Val	Gln	Thr	Pro	Leu		
145					150					155					160		
Ala	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Asp	Asn	Ile	Ile	Asn	His	Phe	Thr		
			165					170						175			
Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Ile	Ser	Val		
		180						185					190				
Asn	Val	Ile	Ser	Met	Gly	Val	Ala	Asn	Val	Ile	Phe	Leu	Gly	Val	Pro		
	195						200					205					
Val	Leu	Phe	Ile	Ser	Phe	Ser	Tyr	Val	Phe	Ile	Ile	Ala	Thr	Ile	Leu		
	210					215					220						
Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser		
225					230					235					240		
Ala	His	Leu	Thr	Val	Val	Ile	Val	Phe	Tyr	Gly	Thr	Ile	Leu	Phe	Met		
			245					250						255			
Tyr	Gly	Lys	Pro	Lys	Ser	Lys	Asp	Pro	Leu	Gly	Ala	Asp	Lys	Gln	Asp		
		260						265					270				
Leu	Ala	Asp	Lys	Leu	Ile	Ser	Leu	Phe	Tyr	Gly	Val	Val	Thr	Pro	Met		
	275					280					285						
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala		
	290					295					300						
Val	Arg	Asn	Leu	Val	Phe	Gln	Lys	Arg	Phe	Leu	Gln	Xaa	Trp	Trp	Arg		
305					310					315					320		

&lt;210&gt; 1666

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g583 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1666

Met	Val	Ser	Ala	Asn	Gln	Thr	Ala	Ser	Val	Thr	Glu	Phe	Ile	Leu	Leu		
1				5				10						15			
Gly	Leu	Ser	Ala	His	Pro	Lys	Leu	Glu	Lys	Thr	Phe	Phe	Val	Leu	Ile		
		20					25					30					
Leu	Leu	Met	Tyr	Leu	Val	Ile	Leu	Leu	Gly	Asn	Gly	Val	Leu	Ile	Leu		
	35					40					45						
Met	Thr	Val	Ser	Asn	Ser	His	Leu	His	Met	Pro	Met	Tyr	Phe	Phe	Leu		
	50				55					60							
Gly	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Thr	Tyr	Ser	Val	Pro		
65					70				75					80			
Leu	Ile	Leu	Asp	Ser	Phe	Leu	Thr	Pro	Arg	Lys	Thr	Ile	Ser	Phe	Ser		
			85					90					95				
Ala	Cys	Ala	Val	Gln	Met	Phe	Leu	Ser	Phe	Ala	Met	Gly	Ala	Thr	Glu		
		100					105					110					
Cys	Val	Leu	Leu	Ser	Met	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys		
	115					120						125					
Asn	Pro	Leu	Arg	Tyr	Pro	Val	Val	Met	Ser	Lys	Ala	Ala	Tyr	Met	Pro		
	130				135						140						
Met	Ala	Val	Gly	Ser	Trp	Val	Ala	Gly	Ser	Thr	Ala	Ser	Met	Val	Gln		
145					150					155					160		
Thr	Ser	Leu	Ala	Met	Arg	Leu	Pro	Phe	Cys	Gly	Asp	Asn	Ile	Ile	Asn		
			165						170					175			



His Phe Thr Cys Glu Ile Leu Ala Val Gln Lys Leu Ala Cys Ala Asp  
 180 185 190  
 Ile Ser Val Asn Val Ile Ser Met Gly Val Thr Asn Val Ile Phe Leu  
 195 200 205  
 Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe Ile Ile Ala  
 210 215 220  
 Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Ser Ala His Leu Thr Val Val Val Ile Phe Tyr Gly Thr Ile  
 245 250 255  
 Leu Phe Met Tyr Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp  
 260 265 270  
 Lys Gln Asp Phe Ala Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Val  
 275 280 285  
 Thr Pro Met Leu Asn Pro Ile Tyr Ser Leu Arg Asn Lys Asp Val  
 290 295 300  
 Lys Ala Ala Val Arg Asp Leu Ile Phe Gln Lys Cys Phe Ala  
 305 310 315

&lt;210&gt; 1667

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g584 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(321)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1667

Met Asn Arg Ser Asn Glu Ala Ser Pro Val Leu Gly Phe Val Leu Leu  
 1 5 10 15  
 Gly Leu Ser Ala His Pro Xaa Leu Glu Lys Thr Phe Phe Val Phe Ile  
 20 25 30  
 Leu Leu Val Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu  
 35 40 45  
 Val Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Val Leu  
 65 70 75 80  
 Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Ala Cys Ala  
 85 90 95  
 Val Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr Glu Cys Val Leu  
 100 105 110  
 Leu Ser Met Met Ala Phe Asp His Tyr Leu Asp Met Cys Asn Pro Leu  
 115 120 125  
 Arg Tyr Pro Val Val Met Ser Lys Ala Ala Tyr Met Pro Met Ala Val  
 130 135 140  
 Gly Ser Trp Ala Ala Gly Ile Thr Asn Ser Val Val Gln Ile Ser Leu  
 145 150 155 160  
 Ala Met Xaa Leu Pro Phe Cys Gly Asp Asn Val Ile Asn His Phe Thr  
 165 170 175  
 Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile Cys Ile  
 180 185 190  
 Asn Val Ile Ser Met Val Val Thr Asn Met Ile Phe Leu Ala Leu Pro  
 195 200 205  
 Val Leu Phe Ile Phe Val Ser Tyr Val Phe Ile Ile Ala Thr Ile Leu  
 210 215 220  
 Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser

```

225          230          235          240
Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Met Ile Leu Phe Met
          245          250          255
Tyr Gly Lys Pro Lys Ser Lys Asp Pro Met Gly Ala Asp Lys Gln Asp
          260          265          270
Leu Ala Asp Lys Leu Ile Ser Ile Phe Tyr Gly Val Val Thr Pro Ile
          275          280          285
Leu Asn Pro Ile Ile Tyr Ser Pro Arg Asn Lys Asp Leu Lys Ala Ala
          290          295          300
Met Arg Asn Leu Val Ala Gln Lys His Leu Thr Glu Xaa Leu Ser Gln
305          310          315          320
Ile

```

<210> 1668  
 <211> 125  
 <212> PRT  
 <213> Unknown (H38g585 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(125)  
 <223> Xaa = Any Amino Acid

```

<400> 1668
Arg Leu Asn Val Ile Ser His Leu Pro Phe Tyr Gly Asp Ile Ile Asn
1          5          10          15
His Leu Thr Cys Glu Val Leu Ala Val Leu Lys Leu Ala Cys Ala Asp
          20          25          30
Ile Ser Ile Asn Met Ile Arg Gln Lys Ala Phe Ser Thr Cys Ser Ala
          35          40          45
His Leu Thr Val Val Val Ile Phe Tyr Arg Thr Ile Leu Phe Thr His
          50          55          60
Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp Lys Gln Asp Phe
65          70          75          80
Ala Asp Lys Leu Ile Ser Leu Ser Tyr Gly Val Val Thr Pro Met Leu
          85          90          95
Asn Thr Ile Ile Tyr Ser Leu Arg Lys Lys Gly Val Lys Ala Ala Val
          100          105          110
Lys Asn Leu Val Phe Gln Lys Pro Leu Thr Glu Xaa Gln
          115          120          125

```

<210> 1669  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g586 protein)

<220>  
 <223> Synthetic construct

```

<400> 1669
Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu Val
1          5          10          15
Asn Ile Gln Thr Arg His His Thr Ile Thr Tyr Thr Gly Cys Leu Thr
          20          25          30
Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe Leu
          35          40          45
Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Cys
50          55          60

```

Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala Leu  
 65 70 75 80  
 Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu Met  
 85 90 95  
 Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe Cys  
 100 105 110  
 Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile Asn  
 115 120 125  
 Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro Phe  
 130 135 140  
 Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu Arg  
 145 150 155 160  
 Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser Ser  
 165 170 175  
 His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala Tyr  
 180 185 190  
 Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala Ala  
 195 200 205  
 Ala Met Tyr Thr Ile Val Thr Pro  
 210 215

&lt;210&gt; 1670

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g587 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1670

Met Glu Lys Ala Asn Glu Thr Ser Pro Val Met Gly Phe Val Leu Leu  
 1 5 10 15  
 Arg Leu Ser Ala His Pro Glu Leu Glu Lys Thr Phe Phe Val Leu Ile  
 20 25 30  
 Leu Leu Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu  
 35 40 45  
 Val Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Gly Asn Leu Ser Phe Leu Asp Ile Cys Phe Thr Thr Ser Ser Val Pro  
 65 70 75 80  
 Leu Val Leu Asp Ser Phe Leu Thr Pro Gln Glu Thr Ile Ser Phe Ser  
 85 90 95  
 Ala Cys Ala Val Gln Met Ala Leu Ser Phe Ala Met Ala Gly Thr Glu  
 100 105 110  
 Cys Leu Leu Leu Ser Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 Asn Pro Leu Arg Tyr Ser Val Ile Met Ser Lys Ala Ala Tyr Met Pro  
 130 135 140  
 Met Ala Ala Ser Ser Trp Ala Ile Gly Gly Ala Ala Ser Val Val His  
 145 150 155 160  
 Thr Ser Leu Ala Ile Gln Leu Pro Phe Cys Gly Asp Asn Val Ile Asn  
 165 170 175  
 His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp  
 180 185 190  
 Ile Ser Ile Asn Val Ile Ser Met Glu Val Thr Asn Val Ile Phe Leu  
 195 200 205  
 Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe Ile Ile Thr  
 210 215 220  
 Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Val Phe Ser  
 225 230 235 240  
 Thr Cys Ser Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Thr Leu

<400> 1672

```

Phe Val Asp Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala
 1          5          10          15
Asn His Ile Leu Gly Ser Gln Ala Ile Ser Phe Ser Gly Cys Leu Thr
          20          25          30
Gln Leu Tyr Phe Leu Ala Val Cys Gly Asn Met Asp Asn Phe Leu Leu
          35          40          45
Gly Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His
          50          55          60
Tyr Thr Thr Lys Met Thr Arg Gln Leu Cys Val Leu Leu Val Val Gly
          65          70          75          80
Ser Trp Val Val Ala Asn Met Asn Cys Leu Leu His Ile Leu Leu Met
          85          90          95
Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His Phe Phe Cys
          100          105          110
Asp Gly Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn
          115          120          125
Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val Thr Pro Phe
          130          135          140
Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Cys Ala Val Leu Arg
          145          150          155          160
Val Ser Ser Pro Arg Gly Gly Trp Lys Ser Phe Ser Thr Cys Gly Ser
          165          170          175
His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Val Ile Ala Val Tyr
          180          185          190
Phe Asn Pro Ser Ser Ser His Leu Ala Gly Arg Asp Met Ala Ala Ala
          195          200          205
Val Met Tyr Pro Val Val Thr Pro
          210          215

```

&lt;210&gt; 1673

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g590 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(329)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1673

```

Met Ala Glu Glu Asn Lys Ile Leu Val Thr His Phe Val Leu Thr Gly
 1          5          10          15
Leu Thr Asp His Pro Gly Leu Gln Ala Pro Leu Phe Leu Val Phe Leu
          20          25          30
Val Ile Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Leu Met Ala Leu
          35          40          45
Ile Trp Lys Asp Pro His Leu His Thr Pro Ile Tyr Leu Phe Leu Gly
          50          55          60
Ser Leu Ala Phe Ala Asp Ala Cys Thr Ser Ser Ser Val Thr Ser Lys
          65          70          75          80
Met Leu Ile Asn Phe Leu Ser Lys Asn His Met Leu Ser Met Ala Lys
          85          90          95
Cys Ala Thr Gln Phe Tyr Phe Phe Gly Ser Asn Ala Thr Thr Glu Cys
          100          105          110
Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
          115          120          125
Pro Leu Leu Tyr Pro Val Val Met Ser Asn Ser Leu Cys Thr Gln Phe
          130          135          140
Ile Gly Ile Ser Tyr Phe Ile Gly Phe Leu His Ser Ala Ile His Val

```

```

145          150          155          160
Gly Leu Leu Phe Arg Leu Thr Phe Cys Arg Ser Asn Ile Ile His Tyr
      165          170          175
Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile Ser Cys Thr Asn Pro
      180          185          190
Thr Val Asn Ile Leu Leu Ile Phe Ile Phe Ser Ala Phe Ile Gln Val
      195          200          205
Phe Thr Phe Met Thr Leu Ile Val Ser Tyr Ser Tyr Ile Leu Ser Ala
      210          215          220
Ile Leu Lys Lys Lys Ser Glu Lys Gly Arg Ser Lys Ala Phe Ser Thr
225          230          235          240
Cys Ser Ala His Leu Leu Ser Val Ser Leu Phe Tyr Gly Thr Leu Phe
      245          250          255
Phe Met Tyr Val Ser Ser Arg Ser Gly Ser Ala Ala Asp Gln Ala Lys
      260          265          270
Met Tyr Ser Leu Phe Tyr Thr Ile Ile Pro Leu Leu Asn Pro Phe
      275          280          285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Asp Ala Leu Arg Arg Ile
      290          295          300
Met Lys Lys Xaa Ile Val Val Arg Gln His Ser Asn His Phe Phe Phe
305          310          315          320
Ile Phe Cys Xaa Arg Lys Pro Gln Val
      325

```

&lt;210&gt; 1674

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g591 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1674

```

Cys His Ser Gln Val Ser Arg Leu Ala Gly Leu Gly Tyr Leu Glu Gly
1      5      10
Arg Arg Leu Ser Ser Tyr Asn Ala Cys Ala Ala Gln Met Phe Phe
      20      25      30
Phe Val Ala Leu Ala Thr Val Glu Asn Ile Leu Leu Thr Ser Met Ala
      35      40      45
Tyr Asp His Tyr Ile Ala Val Cys Lys Pro Leu His Tyr Thr Thr Thr
      50      55      60
Thr Ile Ala Ser Val Cys Ala His Leu Val Ile Gly Ser Tyr Val Cys
65          70          75          80
Gly Phe Leu Asn Ala Ser Leu Arg Ile Val Asp Ile Phe Ser Leu Ser
      85          90          95
Phe Cys Lys Ser Asn Leu Val His His Leu Phe Cys Asp Val Pro Pro
      100          105          110
Val Met Ala Val Ser Cys Ser Gly Lys His Ile Ser Lys Lys Ile Leu
      115          120          125
Val Phe Met Ser Ser Phe Asn Val Phe Leu Ala Leu Leu Val Ile Leu
      130          135          140
Thr Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Lys Met His Ser Ala
145          150          155          160
Gln Gly His Leu Lys Ala Leu Ser Thr Cys Ala Ser His Leu Ile Ala
      165          170          175
Val Ser Ile Phe Tyr Gly Thr Thr Ile Phe Met Tyr Leu Gln Pro Ser
      180          185          190
Ser Ser His Ser Met Asp Thr Asp Glu Met Ala Ser Leu Phe Tyr Ala
      195          200          205
Val Phe Ile Ser
210

```

<210> 1675  
 <211> 314  
 <212> PRT  
 <213> Unknown (H38g592 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(314)  
 <223> Xaa = Any Amino Acid

<400> 1675  
 Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe  
 1 5 10 15  
 Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu  
 20 25 30  
 Leu Tyr Leu Phe Ser Leu Leu Gly Asn Gly Val Ile Phe Gly Leu Ile  
 35 40 45  
 Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His  
 50 55 60  
 Leu Ala Val Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met  
 65 70 75 80  
 Leu Ala Asn Leu Val Asn Gln Lys Arg Thr Ile Ser Phe Ile Ser Cys  
 85 90 95  
 Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Val Cys Leu  
 100 105 110  
 Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro  
 115 120 125  
 Leu His Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Val Leu Ala  
 130 135 140  
 Val Ala Ser Trp Val Phe Ser Phe Leu Leu Ala Leu Val His Leu Val  
 145 150 155 160  
 Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe  
 165 170 175  
 Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp  
 180 185 190  
 Leu Asn Gln Val Val Ile Phe Ala Ala Cys Met Phe Ile Leu Val Gly  
 195 200 205  
 Xaa Leu Cys Leu Val Leu Val Ser Tyr Leu His Ile Leu Ala Ala Ile  
 210 215 220  
 Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ser Ala Ile Val  
 245 250 255  
 Met Tyr Met Ala Pro Lys Ser Ser His Ser Gln Glu Arg Arg Lys Ile  
 260 265 270  
 Leu Ser Leu Phe Tyr Ser Leu Phe Asn Pro Ile Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Ala Glu Val Lys Gly Ala Leu Lys Arg Val Leu  
 290 295 300  
 Trp Lys Gln Arg Ser Ile Glu Glu Ser Phe  
 305 310

<210> 1676  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g593 protein)

<220>

## &lt;223&gt; Synthetic construct

&lt;400&gt; 1676

```

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln
 1           5           10           15
Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr
      20           25           30
Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser Phe Leu Leu
      35           40           45
Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
      50           55           60
Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ala Leu Val Ala Leu
      65           70           75           80
Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met
      85           90           95
Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys
      100          105          110
Asp Met Ser Ala Leu Leu Lys Leu Ala Phe Ser Asp Thr Arg Val Asn
      115          120          125
Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
      130          135          140
Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys
      145          150          155          160
Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser
      165          170          175
His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr
      180          185          190
Leu Cys Ser Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala
      195          200          205
Met Met Tyr Thr Val Val Thr Pro
      210          215

```

&lt;210&gt; 1677

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g594 protein)

&lt;220&gt;

## &lt;223&gt; Synthetic construct

&lt;400&gt; 1677

```

Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
 1           5           10           15
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Val Phe Ser Ser
      20           25           30
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
      35           40           45
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
      50           55           60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
      65           70           75           80
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
      85           90           95
Cys Ile Ala Gln Ile Phe Phe Ile His Val Val Gly Gly Val Glu Met
      100          105          110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Leu Cys Lys
      115          120          125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
      130          135          140
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
      145          150          155          160

```



Ala Phe Leu Val Asn Leu Ala Phe Cys Gly Pro Asn Val Leu Asp Ser  
 165 170 175  
 Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asp Thr  
 180 185 190  
 Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val  
 195 200 205  
 Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr  
 210 215 220  
 Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu  
 225 230 235 240  
 Ser Ala His Ser Thr Val Val Leu Leu Phe Phe Gly Pro Pro Met Phe  
 245 250 255  
 Val Tyr Thr Arg Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala  
 260 265 270  
 Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr  
 275 280 285  
 Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln  
 290 295 300  
 Leu Val Ile Tyr Lys Arg Ile Ser  
 305 310

&lt;210&gt; 1678

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g595 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1678

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe  
 1 5 10 15  
 Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe  
 20 25 30  
 Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly  
 35 40 45  
 Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr  
 A 50 55 60  
 Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala  
 65 70 75 80  
 Ile Gly Pro Lys Met Leu Val Asp Leu Leu Leu Pro Arg Ala Thr Ile  
 85 90 95  
 Pro Tyr Thr Ala Cys Ala Leu Gln Met Phe Val Phe Ala Gly Leu Ala  
 100 105 110  
 Asp Thr Glu Cys Ser Met Gln Leu Met Pro Lys Val Asn Gln Asn Val  
 115 120 125

&lt;210&gt; 1679

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g596 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1679

Met Thr Ile Val Leu Leu Ser Ala Leu Asp Ser Arg Leu His Thr Pro  
 1 5 10 15  
 Met Tyr Phe Phe Leu Ala Asn Leu Ser Phe Leu Asp Met Cys Phe Thr  
 20 25 30  
 Thr Gly Ser Ile Pro Gln Met Leu Tyr Asn Leu Trp Gly Pro Asp Lys

```

      35              40              45
Thr Ile Ser Tyr Val Gly Cys Ala Ile Gln Leu Tyr Phe Val Leu Ala
  50              55              60
Leu Gly Gly Val Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg
  65              70              75              80
Tyr Ala Ala Val Cys Lys Pro Leu His Tyr Thr Ile Ile Met His Pro
      85              90              95
Arg Leu Cys Gly Gln Leu Ala Ser Val Ala Trp Leu Ser Gly Phe Gly
      100              105              110
Asn Ser Leu Ile Met Ala Pro Gln Thr Leu Met Leu Pro Arg Cys Gly
      115              120              125
His Arg Arg Val Asp His Phe Leu Cys Glu Met Pro Ala Leu Ile Gly
      130              135              140
Met Ala Cys Val Asp Thr Met Met Leu Glu Ala Leu Ala Phe Ala Leu
  145              150              155              160
Ala Ile Phe Ile Ile Leu Ala Pro Leu Ile Leu Ile Leu Ile Ser Tyr
      165              170              175
Gly Tyr Val Gly Gly Thr Val Leu Arg Ile Lys Ser Ala Ala Gly Arg
      180              185              190
Lys Lys Ala Phe Asn Thr Cys Ser Ser His Leu Ile Val Val Ser Leu
      195              200              205
Phe Tyr Gly Thr Ile Ile Tyr Met Tyr Leu Gln Pro Ala Asn Thr Tyr
      210              215              220
Ser Gln Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Thr Ile Val Thr
  225              230              235              240
Pro Ser Val Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys
      245              250              255
Glu Ala Met Lys Lys Val Leu Gly Lys Gly Ser Ala Glu Ile
      260              265              270

```

&lt;210&gt; 1680

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g597 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1680

```

Ile Cys Phe Pro Leu His Tyr Pro Ile Arg Ile Ser Lys Arg Val Cys
  1              5              10              15
Val Met Met Ile Thr Gly Ser Trp Met Ile Ser Ser Ile Asn Ser Cys
      20              25              30
Ala His Thr Val Tyr Ala Leu Cys Ile Pro Tyr Cys Lys Ser Arg Ala
      35              40              45
Ile Asn His Phe Phe Cys Asp Val Pro Ala Met Leu Thr Leu Ala Cys
      50              55              60
Thr Asp Thr Trp Val Tyr Glu Ser Thr Val Phe Leu Ser Ser Thr Ile
  65              70              75              80
Phe Leu Val Leu Pro Phe Thr Gly Ile Ala Cys Ser Tyr Gly Arg Val
      85              90              95
Leu Leu Ala Val Tyr Arg Met His Ser Ala Glu Gly Arg Lys Lys Ala
      100              105              110
Tyr Ser

```

&lt;210&gt; 1681

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g598 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1681

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Val
 1           5           10           15
Asp Ser Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
          20           25           30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu
          35           40           45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
          50           55           60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65           70           75           80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
          85           90           95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
          100          105          110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
          115          120          125
Ser Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
130          135          140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145          150          155          160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
          165          170          175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Thr Phe Ile Tyr Arg
          180          185          190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
          195          200          205
Thr Ile Thr Pro
          210

```

&lt;210&gt; 1682

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g599 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1682

```

Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1           5           10           15
Asn Leu Val Ala Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met
          20           25           30
Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Cys Met Leu
          35           40           45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
          50           55           60
Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
65           70           75           80
Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu

```

```
<210> 1684
<211> 114
<212> PRT
<213> Unknown (H38g601 protein)
```

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1684

```

Ile Cys Phe Pro Leu His Tyr Pro Ile Arg Met Arg Lys Arg Val Cys
 1           5           10           15
Ala Leu Met Ile Thr Gly Ser Trp Met Ile Gly Ser Ile Asn Ser Cys
          20           25           30
Ala His Thr Val Tyr Ala Leu Arg Ile Pro Tyr Cys Lys Ser Arg Ala
          35           40           45
Ile Asn His Phe Phe Cys Asp Val Pro Ala Met Leu Thr Leu Ala Cys
          50           55           60
Thr Asp Thr Trp Val Tyr Glu Cys Thr Val Phe Leu Ser Thr Thr Ile
65           70           75           80
Phe Leu Val Phe Pro Phe Ile Cys Ile Ala Cys Ser Tyr Gly Arg Ile
          85           90           95
Leu Leu Ala Val Tyr His Met His Ser Ala Glu Gly Arg Lys Lys Ala
          100          105          110
Tyr Ser

```

&lt;210&gt; 1685

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g602 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1685

```

Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln Leu Leu Ala
 1           5           10           15
His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser Cys Ala Ala
          20           25           30
Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe Val Leu Leu
          35           40           45
Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Val Cys Asp Ala Leu Arg
          50           55           60
Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu Ala Ile Thr
65           70           75           80
Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr Ala Ile Thr
          85           90           95
Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His Ile Ser Cys
          100          105          110
Glu Leu Leu Ala Val Val Arg Leu Ala Arg Val Asp Thr Ser Ser Asn
          115          120          125
Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met Thr Pro Phe
          130          135          140
Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr Ile Leu Lys
145          150          155          160
Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr Cys Ala Ser
          165          170          175
His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile Phe Thr Tyr
          180          185          190
Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys Leu Phe Ser
          195          200          205
Val Phe Tyr Ala Ile Leu Thr Pro
          210          215

```

&lt;210&gt; 1686

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g603 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1686

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu
 1             5             10             15
Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
      20             25             30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Glu Ile Phe Val Leu
      35             40             45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
      50             55             60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65             70             75             80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Val Leu Thr
      85             90             95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys
      100            105            110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
      115            120            125
Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
      130            135            140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145            150            155            160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
      165            170            175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg
      180            185            190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
      195            200            205
Thr Ile Thr Pro
      210

```

&lt;210&gt; 1687

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g604 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1687

```

Ile Cys Lys Pro Leu Leu Tyr Pro Ala Ile Met Thr Asn Gly Leu Cys
 1             5             10             15
Ile Arg Leu Leu Ile Leu Ser Tyr Val Gly Gly Leu Leu His Ala Leu
      20             25             30
Ile His Glu Gly Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile
      35             40             45
Val His His Ile Tyr Cys Asp Ile Ile Pro Leu Ser Lys Ile Ser Cys
      50             55             60
Thr Asp Ser Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ser Gly Ser
65             70             75             80
Ile Gln Val Phe Ser Ile Val Thr Ile Leu Val Ser Tyr Thr Phe Val
      85             90             95

```

Leu Phe Ala Ile Leu Lys Arg Lys Ser Asp Lys Gly Val Arg Lys Ala  
 100 105 110  
 Phe Ser

<210> 1688  
 <211> 111  
 <212> PRT  
 <213> Unknown (H38g605 protein)

<220>  
 <223> Synthetic construct

<400> 1688  
 Ile Cys Asn Pro Leu Arg Tyr Pro Ile Ile Met Ser Arg His Val Cys  
 1 5 10 15  
 Val Gln Met Ala Ala Ile Ser Trp Val Thr Gly Cys Leu Thr Ala Leu  
 20 25 30  
 Leu Val Thr Ser Cys Ala Leu Gln Ile Pro Leu Cys Gly Asn Val Ile  
 35 40 45  
 Asp His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Val  
 50 55 60  
 Ser Ser Leu Leu Val Asp Met Val Met Leu Val Val Ser Ile Leu Leu  
 65 70 75 80  
 Leu Pro Ile Pro Met Leu Leu Ile Cys Ile Ser Tyr Gly Phe Ile Leu  
 85 90 95  
 Ser Thr Ile Leu Arg Ile Gly Ser Thr Glu Gly Arg Asn Lys Ala  
 100 105 110

<210> 1689  
 <211> 223  
 <212> PRT  
 <213> Unknown (H38g606 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(223)  
 <223> Xaa = Any Amino Acid

<400> 1689  
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
 1 5 10 15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
 20 25 30  
 Gln Met Ser Leu Phe Ala Ile Cys Gly Gly Met Glu Glu Ser Met Leu  
 35 40 45  
 Leu Ser Val Met Ala Tyr Gly Arg Phe Val Ala Ile Cys His Pro Leu  
 50 55 60  
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu  
 65 70 75 80  
 Leu Ser Ser Phe Cys Phe Val Ser Val Phe Leu Ser Leu Leu Asp Ser  
 85 90 95  
 Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Gly Phe Lys Asp Val  
 100 105 110  
 Asp Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Leu His Leu Ala  
 115 120 125  
 Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala  
 130 135 140  
 Val Phe Gly Phe Leu Pro Ile Leu Gly Thr Phe Phe Ser Tyr Cys Lys

```

145          150          155          160
Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
          165          170          175
Ala Phe Ser Thr Cys Gly Ser His Leu Pro Val Val Cys Xaa Phe Cys
          180          185          190
Gly Thr Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro
          195          200          205
Arg Lys Ser Ala Val Pro Ser Val Met Tyr Pro Val Val Thr Ser
          210          215          220

```

&lt;210&gt; 1690

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g607 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1690

```

Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys Thr Leu Ser
 1          5          10          15
Asn Ile Arg Thr Gln Ser Lys Val Ile Thr Tyr Ala Asp Cys Ile Thr
 20          25          30
Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu Leu Leu
 35          40          45
Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Leu His
 50          55          60
Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu Val Leu Ala
 65          70          75          80
Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile Glu Ser Leu Met Val
 85          90          95
Leu Pro Leu Leu Phe Cys Thr Asp Leu Lys Ile Pro His Phe Phe Cys
100          105          110
Glu Leu Asn Gln Ile Ile Arg Ser Ala Cys Ser Asp Thr Phe Leu Asn
115          120          125
Asp Met Val Met Tyr Leu Ser Ala Val Leu Leu Gly Arg Gly Cys Phe
130          135          140
Thr Gly Ile Leu Tyr Ser Tyr Phe Lys Thr Val Ser Ser Ile Arg Ala
145          150          155          160
Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
          165          170          175
His Leu Ser Val Val Ser Leu Phe Tyr Cys Met Ser Leu Gly Val Tyr
          180          185          190
Leu Ser Ala Ala Ala Pro Thr Thr His Ser Gln Val Gln Gln Pro Leu
          195          200          205
Met Tyr Thr Val Val Thr Pro
          210          215

```

&lt;210&gt; 1691

&lt;211&gt; 278

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g608 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1691

```

Met Ala Ile Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe Phe
 1          5          10          15
Leu Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile
          20          25          30

```



```

Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly Gln
   35                               40           45
Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly
   50                               55           60
Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Asn Asp Arg
  65                               70           75           80
Tyr Met Ala Ile Cys Tyr Leu Leu His Asn Pro Val Ile Val Ser Gly
           85                               90           95
Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly
           100                            105           110
Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Asn Gly Gly
           115                            120           125
Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn
  130                            135           140
Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu
  145                            150           155           160
Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr
           165                            170           175
Val Ala Ile Thr Gly Ala Val Met His Ile Pro Ser Ala Ala Gly Arg
           180                            185           190
Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Phe Asn Val Val Ile Ile
  195                            200           205
Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser
  210                            215           220
Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val
  225                            230           235           240
Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys
           245                            250           255
Arg Ala Leu Cys Ile Leu His Leu Tyr Gln His Gln Asp Pro Asp
  260                            265           270
Pro Lys Lys Gly Ser Arg
           275

```

&lt;210&gt; 1692

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g609 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1692

```

Met Glu Phe Thr Asp Arg Asn Tyr Thr Leu Val Thr Glu Phe Ile Leu
   1                               5           10           15
Leu Gly Phe Pro Thr Arg Pro Glu Leu Gln Ile Val Leu Phe Leu Met
           20                               25           30
Phe Leu Thr Leu Tyr Ala Ile Ile Leu Ile Gly Asn Ile Gly Leu Met
           35                               40           45
Leu Leu Ile Arg Ile Asp Pro His Leu Gln Thr Pro Met Tyr Phe Phe
   50                               55           60
Leu Ser Asn Leu Ser Phe Val Asp Leu Cys Tyr Phe Ser Asp Ile Val
  65                               70           75           80
Pro Lys Met Leu Val Asn Phe Leu Ser Glu Asn Lys Ser Ile Ser Tyr
           85                               90           95
Tyr Gly Cys Ala Leu Gln Phe Tyr Phe Phe Cys Thr Phe Ala Asp Thr
           100                            105           110
Glu Ser Phe Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile
           115                            120           125
Cys Asn Pro Leu Leu Tyr Thr Val Val Met Ser Arg Gly Ile Cys Met
  130                            135           140
Arg Leu Ile Val Leu Ser Tyr Leu Gly Gly Asn Met Ser Ser Leu Val

```

```

145          150          155          160
His Thr Ser Phe Ala Phe Ile Leu Lys Tyr Cys Asp Lys Asn Val Ile
          165          170          175
Asn His Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Thr
          180          185          190
Asp Thr Thr Ile Asn Glu Trp Leu Leu Ser Thr Tyr Gly Ser Ser Val
          195          200          205
Glu Ile Ile Cys Phe Ile Ile Ile Ile Ser Tyr Phe Phe Ile Leu
          210          215          220
Leu Ser Val Leu Lys Ile Arg Ser Phe Ser Gly Arg Lys Lys Thr Phe
225          230          235          240
Ser Thr Cys Ala Ser His Leu Thr Ser Val Thr Ile Tyr Gln Gly Thr
          245          250          255
Leu Leu Phe Ile Tyr Ser Arg Pro Ser Tyr Leu Tyr Ser Pro Asn Thr
          260          265          270
Asp Lys Ile Ile Ser Val Phe Tyr Thr Ile Phe Ile Pro Val Leu Asn
          275          280          285
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ala Glu
          290          295          300
Lys Val Leu Arg Ser Lys Val Asp Ser Ser
305          310

```

&lt;210&gt; 1693

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g610 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1693

```

Met Asp Asn Gln Ser Ser Thr Pro Gly Phe Leu Leu Leu Gly Phe Ser
 1          5          10          15
Glu His Pro Gly Leu Gly Arg Thr Leu Phe Val Asp Val Ile Thr Ser
          20          25          30
Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Ala
          35          40          45
Leu Asp Thr Lys Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
          50          55          60
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
          65          70          75          80
Ala Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Asp Cys Ser
          85          90          95
Val Gln Ile Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
          100          105          110
Met Lys Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
          115          120          125
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
          130          135          140
Val Ala Trp Val Ile Gly Leu Val Gly Ser Val Val Gln Thr Pro Ser
145          150          155          160
Thr Leu His Leu Pro Phe Cys Pro Asp Arg Gln Val Asp Asp Phe Val
          165          170          175
Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr
          180          185          190
Asn Glu Ile Gln Val Ala Val Ala Ser Val Phe Ile Leu Val Val Pro
          195          200          205
Leu Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Thr Trp Ala Val Leu
          210          215          220
Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
225          230          235          240

```

Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val  
 245 250 255  
 Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe  
 260 265 270  
 Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr  
 275 280 285  
 Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly  
 290 295 300  
 Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala  
 305 310 315

<210> 1694

<211> 309

<212> PRT

<213> Unknown (H38g611 protein)

<220>

<223> Synthetic construct

<400> 1694

Met Lys Arg Glu Asn Phe Thr Leu Ile Thr Asp Phe Val Phe Gln Gly  
 1 5 10 15  
 Phe Ser Ser Phe His Glu Gln Gln Ile Thr Leu Phe Gly Val Phe Leu  
 20 25 30  
 Ala Leu Tyr Ile Leu Thr Leu Ala Gly Asn Ile Ile Ile Val Thr Ile  
 35 40 45  
 Ile Arg Ile Asp Leu His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Met Leu Ser Thr Ser Glu Thr Val Tyr Thr Leu Val Ile Leu Pro Arg  
 65 70 75 80  
 Met Leu Ser Ser Leu Val Gly Met Ser Gln Pro Met Ser Leu Ala Gly  
 85 90 95  
 Cys Ala Thr Gln Met Phe Phe Phe Val Thr Phe Gly Ile Thr Asn Cys  
 100 105 110  
 Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Arg Tyr Met Val Ile Met Asn Lys Arg Leu Arg Ile Gln Leu  
 130 135 140  
 Val Leu Gly Ala Cys Ser Ile Gly Leu Ile Val Ala Ile Thr Gln Val  
 145 150 155 160  
 Thr Ser Val Phe Arg Leu Pro Phe Cys Ala Arg Lys Val Pro His Phe  
 165 170 175  
 Phe Cys Asp Ile Arg Pro Val Met Lys Leu Ser Cys Ile Asp Thr Thr  
 180 185 190  
 Val Asn Glu Ile Leu Thr Leu Ile Ile Ser Val Leu Val Leu Val Val  
 195 200 205  
 Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser Thr Ile  
 210 215 220  
 Leu Lys Ile Ala Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys  
 225 230 235 240  
 Ala Ser His Leu Thr Val Val Ile Val His Tyr Ser Cys Ala Ser Ile  
 245 250 255  
 Ala Tyr Leu Lys Pro Lys Ser Glu Asn Thr Arg Glu His Asp Gln Leu  
 260 265 270  
 Ile Ser Val Thr Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Val Val  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Ala Val  
 290 295 300  
 Gly Gly Lys Phe Ser  
 305

<210> 1695  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g612 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(216)  
 <223> Xaa = Any Amino Acid

<400> 1695  
 Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Ala Pro Lys Met Ile Val  
 1 5 10 15  
 Asp Met Gln Ser His Arg Arg Ala Ile Ser His Ala Gly Cys Leu Thr  
 20 25 30  
 Gln Met Ser Phe Leu Phe Leu Cys Ala Cys Val Glu Gly Met Leu Leu  
 35 40 45  
 Thr Val Met Ala Tyr Asp Cys Phe Val Asp Ile Cys Arg Pro Leu His  
 50 55 60  
 Tyr Pro Val Ile Gly Asn Pro His Phe Cys Val Phe Phe Val Gly Val  
 65 70 75 80  
 Ser Phe Leu Leu Ser Leu Trp Asp Ser Gln Leu His Ser Trp Ile Val  
 85 90 95  
 Leu Gln Ile Thr Ile Phe Lys Asn Val Glu Ile Ser Asn Phe Val Cys  
 100 105 110  
 Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Gly Val Ile Asn  
 115 120 125  
 Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile  
 130 135 140  
 Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg  
 145 150 155 160  
 Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Gln Ala Val Val Cys Xaa Phe Tyr Arg Thr Gly Ile Gly Met Tyr  
 180 185 190  
 Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val Val Ala Ser  
 195 200 205  
 Leu Ile Tyr Ala Leu Val Thr Pro  
 210 215

<210> 1696  
 <211> 214  
 <212> PRT  
 <213> Unknown (H38g613 protein)

<220>  
 <223> Synthetic construct

<400> 1696  
 Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys Met Leu Val  
 1 5 10 15  
 Asn Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Thr Gly Cys Leu Thr  
 20 25 30  
 Gln Leu Tyr Phe Leu Val Ser Leu Val Ala Leu Asp Asn Leu Asn Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His  
 50 55 60  
 Tyr Val Thr Ala Met Ile Pro Gly Leu Cys Ile Leu Leu Leu Ser Leu  
 65 70 75 80

Cys Trp Val Phe Ser Ala Leu Tyr Gly Leu Ile His Ile Leu Leu Met  
 85 90 95  
 Thr Arg Val Thr Phe Cys Gly Ser Gln Lys Ile His Tyr Leu Phe Cys  
 100 105 110  
 Glu Met Tyr Phe Leu Leu Arg Leu Ala Cys Ser Asn Ile His Val Asn  
 115 120 125  
 His Thr Val Leu Val Ala Thr Gly Cys Phe Ile Phe Leu Ile Pro Leu  
 130 135 140  
 Gly Phe Met Ile Thr Ser Asn Ala Arg Ile Val Arg Ala Ile Leu Gln  
 145 150 155 160  
 Ile Pro Ser Ala Thr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser  
 165 170 175  
 His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Leu Gly Met Val Tyr  
 180 185 190  
 Leu Gln Pro Leu Gln Thr Tyr Ser Met Lys Asp Ser Val Ala Thr Val  
 195 200 205  
 Met His Ala Val Val Thr  
 210

<210> 1697

<211> 212

<212> PRT

<213> Unknown (H38g614 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1697

Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu  
 1 5 10 15  
 Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met  
 20 25 30  
 Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu  
 50 55 60  
 Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr  
 65 70 75 80  
 Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu  
 85 90 95  
 Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys  
 100 105 110  
 Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys Val Ser  
 115 120 125  
 Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Ser Glu Ile Ser Ser Leu  
 130 135 140  
 Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys Thr Pro Ser Thr  
 145 150 155 160  
 Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu Thr Ala  
 165 170 175  
 Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn  
 180 185 190  
 Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe Tyr Thr  
 195 200 205  
 Val Val Ile Pro  
 210

<210> 1698  
 <211> 212  
 <212> PRT  
 <213> Unknown (H38g615 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(212)  
 <223> Xaa = Any Amino Acid

<400> 1698  
 Leu Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Arg  
 1 5 10 15  
 Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Thr Met  
 20 25 30  
 Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Val Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu  
 50 55 60  
 Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr  
 65 70 75 80  
 Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu  
 85 90 95  
 Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys  
 100 105 110  
 Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys Val Ser  
 115 120 125  
 Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu  
 130 135 140  
 Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Arg Thr Pro Ser Thr  
 145 150 155 160  
 Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu Thr Ala  
 165 170 175  
 Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn  
 180 185 190  
 Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe Tyr Thr  
 195 200 205  
 Val Val Ile Pro  
 210

<210> 1699  
 <211> 312  
 <212> PRT  
 <213> Unknown (H38g616 protein)

<220>  
 <223> Synthetic construct

<400> 1699  
 Met Ser Ile Ser Asn Ile Thr Val Tyr Met Pro Ser Val Leu Thr Leu  
 1 5 10 15  
 Val Gly Ile Pro Gly Leu Glu Ser Val Gln Cys Trp Ile Gly Ile Pro  
 20 25 30  
 Phe Cys Ala Ile Tyr Leu Ile Ala Met Ile Gly Asn Ser Leu Leu Leu  
 35 40 45  
 Ser Ile Ile Lys Ser Glu Arg Ser Leu His Glu Pro Leu Tyr Ile Phe  
 50 55 60  
 Leu Gly Met Leu Gly Ala Thr Asp Ile Ala Leu Ala Ser Ser Ile Met  
 65 70 75 80

Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Val Pro Glu Ile Tyr Phe  
85 90 95  
Asp Ser Cys Leu Leu Gln Met Trp Phe Ile His Thr Leu Gln Gly Ile  
100 105 110  
Glu Ser Gly Ile Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala Ile  
115 120 125  
Cys Tyr Pro Leu Arg His Ala Asn Ile Phe Thr His Gln Leu Val Ile  
130 135 140  
Gln Ile Gly Thr Met Val Val Leu Arg Ala Ala Ile Leu Val Ala Pro  
145 150 155 160  
Cys Leu Val Leu Ile Lys Cys Arg Phe Gln Phe Tyr His Thr Thr Val  
165 170 175  
Ile Ser His Ser Tyr Cys Glu His Met Ala Ile Val Lys Leu Ala Ala  
180 185 190  
Ala Asn Val Gln Val Asn Lys Ile Tyr Gly Leu Phe Val Ala Phe Thr  
195 200 205  
Val Ala Gly Phe Asp Leu Thr Phe Ile Thr Leu Ser Tyr Ile Gln Ile  
210 215 220  
Phe Ile Thr Val Phe Arg Leu Pro Gln Lys Glu Ala Arg Phe Lys Ala  
225 230 235 240  
Phe Asn Thr Cys Ile Ala His Ile Cys Val Phe Leu Gln Phe Tyr Leu  
245 250 255  
Leu Ala Phe Phe Ser Phe Phe Thr His Arg Phe Gly Ser His Ile Pro  
260 265 270  
Pro Tyr Ile His Ile Leu Phe Ser Ser Ile Tyr Leu Leu Val Pro Pro  
275 280 285  
Phe Leu Asn Pro Leu Val Tyr Gly Ala Lys Thr Thr Gln Ile Arg Ile  
290 295 300  
His Val Val Lys Met Phe Cys Ser  
305 310

&lt;210&gt; 1700

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g617 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1700

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly  
1 5 10 15  
Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met  
20 25 30  
Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu  
35 40 45  
Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser  
50 55 60  
Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Ile Ile Leu Lys  
65 70 75 80  
Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly  
85 90 95  
Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys  
100 105 110  
Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His  
115 120 125  
Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met  
130 135 140  
Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met  
145 150 155 160  
Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His

```

                165                170                175
Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile
                180                185                190
Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu
                195                200                205
Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val
                210                215                220
Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys
225                230                235                240
Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe
                245                250                255
Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
                260                265                270
Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
                275                280                285
Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
                290                295                300
Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu
305                310                315

```

&lt;210&gt; 1701

&lt;211&gt; 294

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g618 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1701

```

Ala Thr Tyr Asn Ser Ser Asn Thr Val Val Thr Glu Phe Val Phe Leu
 1                5                10                15
Ser Phe Pro Glu Leu His His Leu Gln Gly Leu Leu Phe Val Ser Leu
                20                25                30
Leu Ile Ile Tyr Val Val Thr Ile Leu Glu Asp Leu Ala Val Val Gly
 35                40                45
Thr Ile Arg Ala Ser His His Leu His Ile Ser Thr His Leu Phe Leu
 50                55                60
Ala Gln Leu Ser Val Leu Glu Thr Leu Tyr Thr Ser Val Thr Val Pro
 65                70                75                80
Lys Leu Leu Ala Gly Leu Pro Ala Glu Arg Arg Pro Ser Ile Ser Phe
                85                90                95
Ser Gly His Leu Thr Trp Leu Leu Leu Phe Leu Ser Leu Ser Ser Ser
                100                105                110
Glu Cys Val Leu Pro Ala Asn Met Asp Cys Asp Trp His Pro Val Ile
                115                120                125
Cys His Leu Leu His Tyr Leu Ser Pro Ser Trp Thr Pro Cys Ser Trp
 130                135                140
Leu Cys Leu His Leu Ala Ile Ser Ala Gln Leu Ser Ser Phe Pro Ala
 145                150                155                160
Ser Phe Val Ser Thr Ala Leu Asn Ser Ser Leu Arg Leu Arg Ser Pro
                165                170                175
Asp Val Leu Asn His Phe Cys Asp Ile Pro Pro Pro Leu Gly Leu Ser
                180                185                190
Cys Ser Ser Thr Thr Thr Ile Glu Met Arg Thr Gln Ala Ala Gln Val
 195                200                205
Ile Leu Ala Ala Ser Leu Gln Ala Thr Thr Val Ser Tyr Thr His Ile
 210                215                220
Leu Ala Arg Ser Leu Arg Ile Pro Glu Arg Pro Ser Lys Leu Lys Ala
 225                230                235                240
Phe Pro Thr Tyr Ala Ser His Leu Gly Cys Gly Ser Ser Asn Leu Ile
                245                250                255

```



Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys Pro  
                   260                  265                  270  
 Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala Lys  
                   275                  280                  285  
 Leu Leu Gln Ala Leu Pro  
                   290

<210> 1702  
 <211> 295  
 <212> PRT  
 <213> Unknown (H38g619 protein)

<220>  
 <223> Synthetic construct

<400> 1702  
 Ala Thr Tyr Asn Ser Ser Asn Thr Val Val Thr Glu Phe Val Phe Leu  
   1                  5                  10                  15  
 Ser Phe Pro Glu Leu Arg His Leu Gln Gly Leu Leu Phe Gly Leu Leu  
                   20                  25                  30  
 Leu Ile Ile Tyr Val Val Thr Ile Leu Glu Asp Leu Ala Val Val Gly  
                   35                  40                  45  
 Thr Ile Arg Ala Ser His His Leu His Ile Ser Thr His Leu Phe Leu  
                   50                  55                  60  
 Ala Lys Leu Ser Val Leu Glu Thr Leu Tyr Thr Ser Val Thr Val Pro  
   65                  70                  75                  80  
 Lys Leu Leu Ala Gly Leu Pro Gly Thr Ser Asp Asp His Leu Ile Ser  
                   85                  90                  95  
 Phe Ser Gly His Leu Thr Trp Leu Leu Leu Phe Leu Ser Leu Ser Ser  
                   100                  105                  110  
 Ser Glu Cys Ile Leu Pro Ala Asn Met Asp Cys Asp Trp His Pro Val  
                   115                  120                  125  
 Ile Cys His Leu Leu His Tyr Pro Ala His His Gly Leu His Ala Ala  
                   130                  135                  140  
 Arg Leu Cys Leu His Leu Ala Ile Ser Ala Gln Leu Ser Ser Phe Pro  
   145                  150                  155                  160  
 Ala Ser Phe Val Ser Thr Ala Leu Asn Ser Ser Leu Arg Leu Arg Ser  
                   165                  170                  175  
 Pro Asp Val Leu Asn His Phe Cys Asp Ile Pro Pro Pro Leu Gly Leu  
                   180                  185                  190  
 Ser Cys Ser Ser Thr Thr Thr Ile Glu Met Arg Thr Gln Ala Ala Gln  
                   195                  200                  205  
 Val Ile Leu Ala Ala Ser Leu Gln Ala Thr Thr Val Ser Tyr Thr His  
                   210                  215                  220  
 Ile Leu Ala Arg Ser Leu Arg Ile Pro Ala Lys Ala Gln Gln Leu Lys  
   225                  230                  235                  240  
 Ala Phe Pro Thr Tyr Ala Ser His Leu Gly Trp Arg Pro Ser Asn Leu  
                   245                  250                  255  
 Ile Lys Leu Val Ser Gly Val Tyr Leu Val Gly Ile Pro Leu Leu Lys  
                   260                  265                  270  
 Pro Ile Ile Tyr Cys Leu Arg Asn Cys Asn Ile Arg Glu Ala Leu Ala  
                   275                  280                  285  
 Lys Leu Leu Gln Ala Leu Pro  
                   290                  295

<210> 1703  
 <211> 175  
 <212> PRT  
 <213> Unknown (H38g620 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(175)

<223> Xaa = Any Amino Acid

<400> 1703

Leu	Leu	Met	Ala	Ala	Asp	Asn	His	Thr	Arg	Val	Glu	Ala	Phe	Val	Leu
1				5					10					15	
Gln	Gly	Phe	Ser	Glu	Asp	Leu	Pro	Leu	Gln	Gly	Cys	Cys	Phe	Ala	Phe
			20					25					30		
Phe	Leu	Leu	Tyr	Leu	Met	Ala	Leu	Val	Gly	Asn	Ile	Leu	Met	Val	Met
			35				40					45			
Ala	Ile	Ser	Leu	Asn	Pro	Gly	Leu	His	Thr	Pro	Val	Tyr	Phe	Phe	Leu
	50					55					60				
Thr	Asn	Leu	Ala	Leu	Leu	Asp	Ile	Val	Cys	Thr	Ser	Met	Asp	Asn	Ser
65					70				75					80	
Arg	Val	Val	Ala	Val	Leu	Tyr	Thr	Val	Val	Ser	Pro	Thr	Leu	Asn	Pro
				85					90					95	
Ser	Pro	Thr	Pro	Cys	Gly	Thr	Arg	Thr	Tyr	Gln	Xaa	His	Xaa	Gly	Glu
			100					105					110		
Cys	Phe	Leu	Ala	Ser	Gly	Lys	Arg	Lys	Gly	Ser	Phe	Xaa	Cys	Glu	Met
		115				120						125			
Phe	Gln	Val	Leu	Thr	Asn	Xaa	Phe	Gln	His	Met	Thr	Leu	Arg	Ile	Ser
	130					135					140				
Cys	Lys	Gln	Gln	Gly	Thr	Arg	Lys	Xaa	Leu	Met	Pro	His	Ile	Tyr	Lys
145					150				155					160	
Xaa	Cys	Ala	Pro	Ala	Arg	Gly	Cys	His	His	Ser	Met	Trp	Asn	Ser	
				165					170					175	

<210> 1704

<211> 317

<212> PRT

<213> Unknown (H38g621 protein)

<220>

<223> Synthetic construct

<400> 1704

Met	Glu	Arg	Thr	Asn	Asp	Ser	Thr	Ser	Thr	Glu	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Leu	Ser	Ala	His	Pro	Lys	Leu	Gln	Thr	Val	Phe	Phe	Val	Leu	Ile	Leu
			20					25					30		
Trp	Met	Tyr	Leu	Met	Ile	Leu	Leu	Gly	Asn	Gly	Val	Leu	Ile	Ser	Val
		35				40						45			
Ile	Ile	Phe	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Val	Cys	Tyr	Thr	Ser	Ser	Ser	Val	Pro	Leu
65					70				75					80	
Ile	Leu	Ala	Ser	Phe	Leu	Ala	Val	Lys	Lys	Lys	Val	Ser	Phe	Ser	Gly
				85					90					95	
Cys	Met	Val	Gln	Met	Phe	Ile	Ser	Phe	Ala	Met	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Met	Ile	Leu	Gly	Thr	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
	115					120						125			
Pro	Leu	Arg	Tyr	Pro	Val	Ile	Met	Ser	Lys	Gly	Ala	Tyr	Val	Ala	Met
	130					135					140				
Ala	Ala	Gly	Ser	Trp	Val	Thr	Gly	Leu	Val	Asp	Ser	Val	Val	Gln	Thr
145					150				155					160	
Ala	Phe	Ala	Met	Gln	Leu	Pro	Phe	Cys	Ala	Asn	Asn	Val	Ile	Lys	His
				165					170					175	

```

Phe Val Cys Glu Ile Leu Ala Ile Leu Lys Leu Ala Cys Ala Asp Ile
      180      185      190
Ser Ile Asn Val Ile Ser Met Thr Gly Ser Asn Leu Ile Val Leu Val
      195      200      205
Ile Pro Leu Leu Val Ile Ser Ile Ser Tyr Ile Phe Ile Val Ala Thr
      210      215      220
Ile Leu Arg Ile Pro Ser Thr Glu Gly Lys His Lys Ala Phe Ser Thr
      225      230      235      240
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
      245      250      255
Phe Met Tyr Ala Lys Pro Glu Ser Lys Ala Ser Val Asp Ser Gly Asn
      260      265      270
Glu Asp Ile Ile Glu Ala Leu Ile Ser Leu Phe Tyr Gly Val Met Thr
      275      280      285
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
      290      295      300
Ala Ala Val Lys Asn Ile Leu Cys Arg Lys Asn Phe Ser
      305      310      315

```

&lt;210&gt; 1705

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g622 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1705

```

Met Glu Trp Glu Asn Gln Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
  1      5      10      15
His Ser Val His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
      20      25      30
Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
      35      40      45
Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
      50      55      60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
      65      70      75      80
Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Phe Ser Gly
      85      90      95
Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
      100      105      110
Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
      115      120      125
Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asn Ala Tyr Val Pro Met
      130      135      140
Ala Val Gly Ser Trp Phe Ala Gly Ile Val Asn Ser Ala Val Gln Thr
      145      150      155      160
Thr Phe Val Val Gln Leu Pro Phe Cys Arg Lys Asn Val Ile Asn His
      165      170      175
Phe Ser Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
      180      185      190
Ser Gly Asn Glu Phe Leu Met Leu Val Ala Thr Ile Leu Phe Thr Leu
      195      200      205
Met Pro Leu Leu Leu Ile Val Ile Ser Tyr Ser Leu Ile Ile Ser Ser
      210      215      220
Ile Leu Lys Ile His Ser Ser Glu Gly Arg Ser Lys Ala Phe Ser Thr
      225      230      235      240
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
      245      250      255
Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp

```

```

                260                265                270
Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
                275                280                285
Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                290                295                300
Glu Ala Val Lys His Leu Pro Asn Arg Arg Phe Phe Ser Lys
305                310                315

```

&lt;210&gt; 1706

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g623 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(124)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1706

```

Phe Leu Leu Xaa Ala Asn Tyr Ser Ala Glu Glu Arg Phe Leu Leu Leu
 1                5                10                15
Gly Phe Ser Asp Trp Pro Ser Leu Gln Pro Val Leu Phe Ala Leu Val
                20                25                30
Leu Leu Cys Tyr Leu Leu Thr Leu Thr Gly Asn Ser Ala Leu Val Leu
                35                40                45
Leu Ala Val Asp Pro Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Cys
                50                55                60
His Leu Ala Leu Val Asp Ala Gly Phe Thr Thr Ser Val Val Pro Pro
65                70                75                80
Leu Leu Ala Asn Leu Arg Gly Pro Ala Leu Tyr Val Pro Arg Ser His
                85                90                95
Cys Thr Ala Gln Leu Cys Ala Ser Leu Ala Leu Gly Ser Ala Glu Cys
                100                105                110
Val His Leu Ala Val Met Ala Leu Gly Arg Ala Val
                115                120

```

&lt;210&gt; 1707

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g624 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1707

```

Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser
 1                5                10                15
Gln Asp Pro Gly Val Gln Lys Ala Leu Phe Val Met Phe Leu Leu Thr
                20                25                30
Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Val Asp Ile Ile
                35                40                45
Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu
                50                55                60
Ser Phe Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile
65                70                75                80
Val Gly Leu Phe Cys Asp Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
                85                90                95
Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Val Phe Leu
                100                105                110

```

```

Leu Val Val Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
    115                120                125
His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Phe Leu Leu Leu Val
    130                135                140
Val Ala Met Ile Gly Gly Phe Val His Ser Ala Phe Gln Ile Val Val
    145                150                155                160
Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Val His Phe Ser Cys
    165                170                175
Asp Met His Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Phe Ile
    180                185                190
Gly Leu Thr Val Val Val Asn Ser Gly Ala Ile Cys Met Val Ile Phe
    195                200                205
Asn Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Ser Ser Leu Lys Thr
    210                215                220
Tyr Ser Gln Glu Lys Arg Gly Lys Ala Leu Ser Thr Cys Ser Ser Gly
    225                230                235                240
Ser Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Ile Tyr Val
    245                250                255
Arg Pro Val Ser Asn Phe Pro Thr Asp Lys Phe Met Thr Val Phe Tyr
    260                265                270
Thr Ile Ile Thr His Met Leu Ser Pro Leu Ile Tyr Thr Leu Arg Asn
    275                280                285
Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Gly Lys Lys Leu Thr
    290                295                300
Ile Phe Ile Ile Gly Gly Val Ser Val Leu Met
    305                310                315

```

&lt;210&gt; 1708

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g625 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1708

```

Arg Cys Ala Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala
  1          5          10          15
Leu Leu Lys Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln
  20          25          30
Met Phe Ala Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile
  35          40          45
Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe
  50          55          60
Ser Gly Gly Arg Gln Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr
  65          70          75          80
Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro
  85          90          95
Ala Gln Arg Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu Phe Tyr
  100         105         110
Thr Val Val Thr Pro
    115

```

&lt;210&gt; 1709

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g626 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(313)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1709

```

Gly Leu Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Asn Thr Gln
 1          5          10          15
Cys Pro Asp Val Gln Asn Ala Leu Phe Val Met Val Leu Leu Thr Tyr
          20          25          30
Val Val Ser Met Ala Gly Asn Leu Leu Ala Val Val Ala Ile Ile Ser
          35          40          45
Ser Pro Ser Phe Gly Ser Pro Met Tyr Phe Phe Leu Thr Cys Leu Leu
 50          55          60
Phe Ile Tyr Ala Ala Tyr Ser Asn Thr Ile Ser Pro Lys Leu Ile Ile
65          70          75          80
Gly Leu Leu His Asp Lys Lys Thr Ile Phe Phe Thr Ala Cys Met Gly
          85          90          95
Gln Leu Phe Ile Asp His Leu Phe Gly Gly Ala Glu Val Phe Leu Leu
          100          105          110
Val Gly Met Ser Tyr Asp Phe Tyr Val Ala Ile Ser Lys Pro Leu His
          115          120          125
Tyr Leu Thr Ile Met Asn Gln Val Cys Ile Leu Leu Leu Val Val
          130          135          140
Ala Val Thr Gly Gly Phe Val Ser Cys Val Phe Gln Ile Val Val Val
145          150          155          160
Tyr Thr Leu Ser Phe Cys Gly Pro Asn Val Thr Asp His Phe Val Cys
          165          170          175
Asp Met Tyr Pro Leu Leu Glu Leu Val Cys Thr Asp Thr Tyr Phe Ile
          180          185          190
Gly Leu Thr Val Val Ala Asn Gly Leu Ala Ile Cys Met Val Val Phe
          195          200          205
Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Asn Phe Lys Thr
          210          215          220
Tyr Ser Gln Glu Gly Arg Leu Lys Ala Leu Ser Ala Cys Ile Ser Tyr
225          230          235          240
Ile Thr Val Thr Val Leu Phe Leu Val Pro Cys Ile Phe Leu Phe Val
          245          250          255
Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Met Thr Val Phe Tyr
          260          265          270
Thr Val Ile Ile His Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
          275          280          285
Leu Glu Met Arg Ile Ala Val Lys Ser Asn Val Lys Lys Leu Trp His
          290          295          300
Xaa Lys Leu Asn Tyr Ser Xaa Asn Glu
305          310

```

&lt;210&gt; 1710

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g627 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(323)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1710

```

Met Arg Leu Ser Ser Asp Val Thr Ala Phe Val Leu Leu Gly Leu Thr
 1          5          10          15

```

Gln Asp Pro Asp Val Xaa Asn Ala Leu Phe Val Val His Leu Leu Thr  
 20 25 30  
 Tyr Ile Met Thr Met Val Gly Asn Leu Pro Ile Val Val Thr Ile Ile  
 35 40 45  
 Ala Thr Pro Thr Leu Gly Ser Pro Val Tyr Phe Phe Ile Val Cys Leu  
 50 55 60  
 Ser Phe Ile Asp Val Val Tyr Ser Thr Thr Ile Pro Pro Lys Leu Ile  
 65 70 75 80  
 Val Ser Tyr Leu His Asp Lys Lys Thr Ile Ser Phe Arg Ala Cys Met  
 85 90 95  
 Gly Gln Pro Phe Ile Asp His Leu Val Gly Gly Ala Glu Ala Phe Ile  
 100 105 110  
 Leu Leu Val Met Ala Tyr Asn Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Phe Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val  
 130 135 140  
 Val Ala Val Thr Ala Gly Phe Val His Ser Val Phe Gln Ile Leu Val  
 145 150 155 160  
 Ala Tyr Ser Leu Leu Phe Cys Gly Pro Asn Ile Ile Asp His Phe Phe  
 165 170 175  
 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala His Thr Asp Thr Tyr Phe  
 180 185 190  
 Ile Gly Leu Thr Val Val Ala Asn Gly Gly Gly Ile Cys Met Val Leu  
 195 200 205  
 Phe Ile Leu Leu Leu Ile Ser Cys Gly Val Ile Leu Ile Ser Leu Lys  
 210 215 220  
 Thr Tyr Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr  
 245 250 255  
 Val Arg Pro Val Ser Asn Phe Pro Ile Asn Lys Phe Ile Thr Val Phe  
 260 265 270  
 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Xaa Glu Met Lys Asn Ala Ile Gly Asn Leu Trp Cys Lys Tyr Xaa  
 290 295 300  
 Leu Xaa Ile Glu Xaa Glu Gly Thr Phe Ser Cys Arg Tyr Arg Val Met  
 305 310 315 320  
 Gln Val Lys

&lt;210&gt; 1711

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g628 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(235)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1711

Pro Met Tyr Leu Phe Leu Gly Asn Leu Ser Phe Ile Asp Leu Cys Tyr  
 1 5 10 15  
 Ser Phe Val Phe Thr Pro Lys Met Leu Met Ser Phe Ile Ser Glu Arg  
 20 25 30  
 Asn Ile Ile Ser Phe Pro Gly Cys Ile Thr Gln Leu Phe Phe Phe Cys  
 35 40 45  
 Phe Phe Val His Ser Glu Cys Tyr Val Leu Thr Ala Met Ala Tyr Asp

50	55	60
Arg Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Met Val Thr Thr Ser		
65	70	75
Pro Gln Ile Cys Ser Leu Leu Met Leu Gly Ser Tyr Val Met Gly Phe		80
	85	90
Ala Gly Ala Met Val His Thr Glu Cys Met Met Lys Leu Ile Phe Cys		95
	100	105
Asp Ser Asn Val Ile Asn His Asn Met Cys Asp Ile Phe Pro Leu Leu		110
	115	120
Gln Leu Ser Cys Ser Ser Thr Xaa Ala Asn Glu Leu Val Met Ser Val		125
	130	135
Ile Val Gly Thr Val Val Ile Val Ser Ser Leu Ile Ile Leu Ile Ser		140
	145	150
Tyr Ala Leu Ile Leu Phe Asn Ile Leu His Met Ser Ser Ala Glu Gly		155
	165	170
Trp Phe Lys Ala Ile Gly Thr Cys Gly Ser His Ile Ile Thr Val Gly		175
	180	185
Leu Phe Tyr Glu Phe Gly Leu Ile Thr His Val Lys Leu Ser Ser Asp		190
	195	200
Trp Tyr Met Gly Gln Gly Lys Phe Leu Ser Val Phe Tyr Thr Asn Val		205
	210	215
Val Pro Met Leu Asn Pro Phe Ile Tyr Cys Leu		220
225	230	235

&lt;210&gt; 1712

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g629 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(308)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1712

Met Arg Gln Asn Asn Asn Ile Thr Glu Phe Val Leu Leu Gly Phe Ser		
1	5	10
Gln Tyr Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu Leu Ile		15
	20	25
Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Val Ser Ile Ile		30
	35	40
Ala Ser Pro Phe Leu Gly Ser Pro Val Tyr Phe Phe Leu Ala Cys Leu		45
	50	55
Ser Phe Ile Asp Ala Val Tyr Ser Thr Thr Ile Ser Pro Val Leu Ile		60
	65	70
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met		75
	85	90
Gly Gln Leu Phe Ile Glu His Leu Phe Gly Asp Thr Asp Val Phe Leu		95
	100	105
Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Lys Pro Leu		110
	115	120
Arg Tyr Leu Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val		125
	130	135
Val Ala Val Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Leu Val		140
	145	150
Val Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Tyr His Phe Phe		155
	165	170
Cys Asn Ile Tyr Pro Leu Leu Asp Leu Glu Cys Thr Asp Thr Tyr Phe		175
	180	185
		190



Val Gly Leu Ala Val Val Phe Asn Gly Gly Ala Ile Cys Met Val Ile  
 195 200 205  
 Phe Thr Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu Asn Ser Leu Lys  
 210 215 220  
 Thr Tyr Ser Pro Glu Gly Arg His Lys Ala Pro Phe Ile Cys Ser Ser  
 225 230 235 240  
 His Phe Ile Met Val Ile Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr  
 245 250 255  
 Val Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Leu Thr Val Phe  
 260 265 270  
 Tyr Ser Val Ile Thr Pro Lys Leu Asn Pro Phe Ile Tyr Met Leu Arg  
 275 280 285  
 Asn Ser Glu Met Arg Asn Ala Ile Glu Asn Leu Leu Gly Tyr Gln Ser  
 290 295 300  
 Gly Lys Thr Gly  
 305

<210> 1713

<211> 230

<212> PRT

<213> Unknown (H38g630 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(230)

<223> Xaa = Any Amino Acid

<400> 1713

Pro Met Tyr Leu Phe Leu Ala Asn Leu Ser Leu Pro Asp Ile Gly Phe  
 1 5 10 15  
 Thr Ser Ser Met Val Pro Lys Met Ile Val Asp Ile Xaa Ser His Ser  
 20 25 30  
 Arg Leu Ile Ser Xaa Ala Gly Cys Leu Thr Pro Met Ser Leu Phe Ala  
 35 40 45  
 Ile Phe Gly Gly Met Glu Glu Asn Met Leu Leu Ser Val Ile Ala Tyr  
 50 55 60  
 Asp Pro Phe Val Ala Ile Cys His Pro Leu Tyr His Ser Ala Ile Met  
 65 70 75 80  
 Asn Pro Cys Phe Cys Gly Phe Leu Val Leu Leu Ser Phe Phe Ser Gln  
 85 90 95  
 Ser Leu Leu Asp Ala Gln Val His Asn Leu Ile Ala Leu Gln Met Thr  
 100 105 110  
 Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln  
 115 120 125  
 Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Met  
 130 135 140  
 Tyr Ser Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu  
 145 150 155 160  
 Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile Arg Arg Val Ser Ser Ser  
 165 170 175  
 Gly Gly Lys Tyr Lys Ala Cys Ser Thr Cys Gly Ser His Leu Ser Val  
 180 185 190  
 Val Cys Xaa Phe Tyr Gly Thr Gly Phe Trp Gly Tyr Leu Ser Ser Asp  
 195 200 205  
 Val Ser Ser Ser Pro Gly Lys Ala Ala Val Ala Ser Val Met Tyr Thr  
 210 215 220  
 Val Val Thr Pro Met Leu  
 225 230

<210> 1714  
 <211> 227  
 <212> PRT  
 <213> Unknown (H38g632 protein)

<220>  
 <223> Synthetic construct

<400> 1714  
 Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro Lys Met Leu  
 1 5 10 15  
 Gly Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe Leu Gly Cys Ala  
 20 25 30  
 Thr Gln Met Tyr Phe Phe Phe Phe Gly Val Ala Glu Cys Phe Leu  
 35 40 45  
 Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu  
 50 55 60  
 His Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala Lys Leu Ala Ala  
 65 70 75 80  
 Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val Gln Thr Thr Trp  
 85 90 95  
 Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val Asn His Phe Phe  
 100 105 110  
 Cys Asp Ser Pro Pro Val Leu Lys Leu Val Cys Ala Asp Thr Ala Leu  
 115 120 125  
 Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val Val Met Ile Pro  
 130 135 140  
 Cys Leu Leu Ile Leu Cys Ser Tyr Thr Arg Ile Ala Ala Ala Ile Leu  
 145 150 155 160  
 Lys Ile Pro Ser Ala Lys Gly Lys His Lys Ala Phe Ser Thr Cys Ser  
 165 170 175  
 Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser Leu Ser Leu Thr  
 180 185 190  
 Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly Lys Lys Leu Leu  
 195 200 205  
 Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Phe His Leu  
 210 215 220  
 Leu Ser Trp  
 225

<210> 1715  
 <211> 192  
 <212> PRT  
 <213> Unknown (H38g633 protein)

<220>  
 <223> Synthetic construct

<400> 1715  
 Met Val Thr Glu Phe Leu Leu Leu Gly Phe Leu Leu Gly Pro Arg Ile  
 1 5 10 15  
 Gln Met Leu Leu Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu  
 20 25 30  
 Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu  
 35 40 45  
 His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asp Ile  
 50 55 60  
 Ala Tyr Ala Cys Asn Thr Val Pro Arg Met Leu Val Asn Leu Leu His  
 65 70 75 80  
 Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu  
 85 90 95

Phe Ser Thr Phe Ala Val Thr Glu Cys Leu Leu Leu Val Val Met Ser  
 100 105 110  
 Tyr Asp Leu Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Phe Ile Ile  
 115 120 125  
 Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile Thr Ser Trp Thr Cys  
 130 135 140  
 Gly Ser Leu Leu Ala Met Val His Val Ser Leu Ile Leu Arg Leu Pro  
 145 150 155 160  
 Phe Cys Gly Pro Arg Glu Ile Asn His Phe Leu Cys Glu Ile Leu Ala  
 165 170 175  
 Val Leu Arg Leu Gly Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile  
 180 185 190

&lt;210&gt; 1716

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g634 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(308)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1716

Tyr Ala Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu  
 1 5 10 15  
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe  
 20 25 30  
 Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu  
 35 40 45  
 Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro  
 65 70 75 80  
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala  
 85 90 95  
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu  
 100 105 110  
 Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Trp Phe Val Ala Ile  
 115 120 125  
 Cys His Pro Leu Tyr His Leu Thr Ile Met Asn Pro Cys Phe Cys Ala  
 130 135 140  
 Phe Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln  
 145 150 155 160  
 Leu His Asn Leu Ile Ala Leu Gln Val Thr Cys Phe Lys Asp Val Glu  
 165 170 175  
 Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys  
 180 185 190  
 Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile  
 195 200 205  
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile  
 210 215 220  
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly  
 245 250 255  
 Arg Gly Val Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg  
 260 265 270  
 Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Ser Met Leu

275                      280                      285  
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu  
 290                      295                      300  
 Arg Arg Pro Gln  
 305

<210> 1717  
 <211> 238  
 <212> PRT  
 <213> Unknown (H38g635 protein)

<220>  
 <223> Synthetic construct

<400> 1717  
 Met Tyr Leu Phe Leu Arg Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr  
 1                      5                      10                      15  
 Ser Thr Ile Val Pro Lys Met Ile Val Asp Ile Gln Ser His Ser Arg  
 20                      25                      30  
 Val Ile Ser Tyr Ala Gly Arg Leu Thr Gln Met Ser Leu Phe Ala Ile  
 35                      40                      45  
 Phe Gly Gly Met Glu Asp Asn Met Leu Leu Ser Val Met Ala Tyr Asp  
 50                      55                      60  
 Arg Phe Val Ala Ile Cys His Pro Leu Tyr His Ser Ala Ile Met Asn  
 65                      70                      75                      80  
 Pro Cys Phe Cys Gly Phe Leu Leu Leu Leu Ser Phe Phe Phe Phe Leu  
 85                      90                      95  
 Ser Leu Leu Asp Thr Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr  
 100                      105                      110  
 Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln  
 115                      120                      125  
 Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Val  
 130                      135                      140  
 Tyr Phe Pro Ala Val Ile Phe Val Phe Leu Pro Ile Ser Gly Thr Leu  
 145                      150                      155                      160  
 Phe Ser Leu Lys Leu Phe Val Ser Ser Ile Leu Arg Val Ser Ser Ser  
 165                      170                      175  
 Gly Gly Lys Tyr Lys Thr Phe Ser Thr Cys Gly Ser His Leu Ser Val  
 180                      185                      190  
 Ile Cys Leu Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp  
 195                      200                      205  
 Val Ser Ser Ser Leu Arg Lys Ala Ala Val Ala Ser Val Met Tyr Lys  
 210                      215                      220  
 Met Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Thr Leu Arg  
 225                      230                      235

<210> 1718  
 <211> 321  
 <212> PRT  
 <213> Unknown (H38g636 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(321)  
 <223> Xaa = Any Amino Acid

<400> 1718  
 Phe Lys Arg Ser Ile Thr Phe Thr Pro Thr Thr Phe Thr Leu Val Gly  
 1                      5                      10                      15

```

Ile Pro Gly Leu Glu Ala Glu His Tyr Trp Ile Ser Ile Pro Phe Cys
      20      25      30
Leu Ile Tyr Thr Ile Ile Phe Pro Gly Asn Gly Ile Ile Leu His Ile
      35      40      45
Ile Arg Ile Asp Ser Ser Leu His Gln Pro Met Tyr Tyr Phe Leu Ala
      50      55      60
Met Pro Ala Phe Val Glu Leu Gly Val Ser Ala Ser Thr Met Pro Thr
      65      70      75      80
Val Leu Ser Ile Phe Leu Phe Gly Ile Asn Asp Val Ser Phe Gly Gly
      85      90      95
Cys Leu Leu Gln Met Phe Ser Met His Ser Phe Thr Leu Met Glu Ser
      100      105      110
Gly Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Ser
      115      120      125
Pro Leu Arg Tyr Thr Thr Ile Leu Thr Ile Ala Cys Ile Ser Gly Met
      130      135      140
Gly Ala Ala Ile Ala Leu Arg Ser Val Met Leu Met Leu Pro Leu Leu
      145      150      155      160
Phe Leu Leu Arg Arg Leu Pro Phe Cys Gly His Asn Thr Leu Thr His
      165      170      175
Ser Tyr Cys Leu His Ser Asp Leu Ile Lys Leu Pro Cys Gly Asp Thr
      180      185      190
Arg Pro Asn Ser Ile Leu Ala Leu Phe Val Ile Thr Phe Thr Phe Gly
      195      200      205
Leu Asp Leu Leu Phe Ile Val Val Ser Tyr Val Leu Ile Leu His Thr
      210      215      220
Val Leu Glu Ile Ala Ser Arg Ser Arg Ala Trp Gln Ala Leu Asn Thr
      225      230      235      240
Cys Val Ser His Ile Cys Ala Val Leu Val Tyr Tyr Val Pro Met Ile
      245      250      255
Ser Leu Ser Xaa Val His Arg Phe Gly Arg His Leu Pro Pro Leu Phe
      260      265      270
Gln Thr Val Thr Ala Asn Ala Tyr Leu Phe Phe Pro Pro Val Val Asn
      275      280      285
Pro Ile Val Tyr Ser Ile Lys Ile Lys Glu Ile Arg Asn Ser Val Val
      290      295      300
Leu Thr Leu Ser Arg Lys Arg Gly Glu Phe Xaa Trp Arg Pro Lys Ile
      305      310      315      320
Pro

```

&lt;210&gt; 1719

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g637 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(291)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1719

```

Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe Leu
  1      5      10      15
Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      20      25      30
Met Ser Pro Asp Ser His Leu His Thr Ser Met Tyr Phe Phe Leu Ser
      35      40      45
Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Gln

```

50	55	60
Met Thr Val Asp Ile Gln Ser Arg Ser Arg Val Ile Ser Tyr Ala Gly		
65	70	75
Cys Leu Thr Gln Lys Ser Leu Phe Ala Ile Phe Gly Gly Thr Glu Glu		80
	85	90
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys		95
100	105	110
His Pro Leu Tyr His Ser Ala Ile Met Asn Leu Cys Phe Cys Gly Phe		
115	120	125
Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu		
130	135	140
Tyr Asn Leu Ile Ala Leu Leu Met Thr Cys Phe Lys Glu Val Asp Ile		
145	150	155
Pro Asn Phe Phe Cys Asp Leu Ser Gln Leu Pro His Leu Ala Cys Cys		
	165	170
Asp Thr Phe Ile Asn Asn Ile Ile Met Tyr Phe Pro Thr Ala Ile Phe		
180	185	190
Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val		
195	200	205
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe		
210	215	220
Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Arg		
225	230	235
Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys		
	245	250
Gly Ala Val Ala Ala Val Met Tyr Thr Val Val Thr Ser Met Leu Asn		
	260	265
Pro Phe Ile Tyr Ser Leu Gly Asn Arg Asp Ile Lys Ser Val Leu Arg		
275	280	285
Arg Pro Gln		
290		

&lt;210&gt; 1720

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g638 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1720

Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Thr Val Ile Ala	
1	5
Gly Leu Val Ile Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala Ala	
20	25
Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu Asn Phe Leu Leu	
35	40
Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val Cys Lys Pro Leu His	
50	55
Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala Cys Leu Ala Ile Ile	
65	70
Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile His Ile Gly Glu Thr	
85	90
Leu Ser Leu Phe Leu Tyr Gly Pro Asn Glu Val His Cys Phe Phe Cys	
100	105
Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys Asp Arg His Val Asn	
115	120
Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn Ile Phe Ser Ala Ile	
130	135
Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Lys	
145	150
	155
	160

Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu Ser Thr Cys Ala Ser  
                   165                  170                  175  
 His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Ile Ile Phe Met Tyr  
                   180                  185                  190  
 Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Leu Ala Ser  
                   195                  200                  205  
 Val Phe Tyr Thr Met Ile Ile Pro  
                   210                  215

&lt;210&gt; 1721

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g639 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1721

Phe Val Asp Ile Cys Phe Ser Cys Thr Thr Val Pro Lys Met Leu Ala  
   1                  5                  10                  15  
 Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly Cys Leu Thr  
                   20                  25                  30  
 Gln Met Tyr Phe Val Phe Met Phe Val Asp Thr Asp Asn Phe Leu Leu  
                   35                  40                  45  
 Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His Pro Leu His  
                   50                  55                  60  
 Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Ala Gly  
                   65                  70                  75                  80  
 Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr Leu Leu Met  
                   85                  90                  95  
 Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His Phe Phe Cys  
                   100                  105                  110  
 Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn  
                   115                  120                  125  
 Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe  
                   130                  135                  140  
 Leu Cys Asn Leu Ala Ser Tyr Met His Ile Thr Cys Thr Gly Leu Lys  
                   145                  150                  155                  160  
 Gly Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser  
                   165                  170                  175  
 His Leu Ala Val Gly Leu Leu Phe Tyr Ser Thr Ile Thr Ala Val Tyr  
                   180                  185                  190  
 Phe Asn Pro Leu Ser Ser His Ser Ala Ala Lys Asp Thr Met Ala Thr  
                   195                  200                  205  
 Val Leu Tyr Thr Val Val Thr Pro  
                   210                  215

&lt;210&gt; 1722

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g640 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1722

Ile Cys Ser Pro Leu Leu Tyr Asn Val Ile Met Ser Tyr His His Cys  
   1                  5                  10                  15  
 Phe Trp Leu Thr Val Gly Val Tyr Ile Leu Gly Ile Leu Gly Ser Thr  
                   20                  25                  30  
 Ile His Thr Gly Phe Met Leu Arg Leu Phe Leu Cys Lys Thr Asn Val

```

      35      40      45
Ile Asn His Tyr Phe Cys Asp Leu Phe Pro Leu Leu Gly Leu Ser Cys
  50      55      60
Ser Ser Thr Tyr Ile Asn Glu Leu Leu Val Leu Val Leu Ser Ala Phe
65      70      75      80
Asn Ile Leu Thr Pro Ala Leu Thr Ile Leu Ala Ser Tyr Ile Phe Ile
      85      90      95
Ile Ala Ser Ile Leu Arg Ile Arg Ser Thr Glu Gly Arg Ser Lys Ala
      100      105      110
Phe Ser Thr Cys Ser Ser His Ile Leu Ala Val Ala Gly Phe Phe Gly
      115      120      125
Ser Ala Ala Phe Met Tyr Leu Gln Pro Ser Ser Val Ser Ser Met Asp
      130      135      140
Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Ile Val Val
145      150      155

```

&lt;210&gt; 1723

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g641 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1723

```

Met Lys Thr Leu Cys Ser Phe Leu Gln Ile Ser Arg Asn Met His Gln
  1      5      10      15
Glu Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly Leu Ser Asn
      20      25      30
Gln Ala Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu Ser Met Tyr
      35      40      45
Val Val Thr Val Val Gly Asn Gly Leu Ile Ile Val Ala Ile Ser Leu
      50      55      60
Asp Ile Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala Tyr Leu Ser
65      70      75      80
Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys Met Leu Val
      85      90      95
Asn Ile Gln Thr Asn Ser Gln Ser Ile Ser Tyr Glu Ser Cys Ile Thr
      100      105      110
Gln Met Tyr Phe Ser Ile Val Phe Val Val Thr Asp Asn Leu Leu Leu
      115      120      125
Gly Thr Met Ala Phe Asp His Phe Val Ala Ile Cys His Pro Leu Asn
      130      135      140
Tyr Thr Thr Phe Met Arg Ala Arg Phe Gly Thr Leu Leu Thr Val Ile
145      150      155      160
Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr Leu Leu Leu
      165      170      175
Ile Gln Leu Leu Phe Cys Asp His Asn Thr Leu Pro His Phe Phe Cys
      180      185      190
Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr Met Ile Asn
      195      200      205
Glu Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile Phe Pro Phe
      210      215      220
Val Leu Ile Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala Val Leu Gly
225      230      235      240
Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser
      245      250      255
His Leu Thr Ile Ala Leu Leu Phe Tyr Gly Thr Thr Val Gly Val Tyr
      260      265      270
Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys Ile Gly Ala
      275      280      285

```



Val Leu Phe Thr Val Val Thr Pro Met Met Asn Pro Phe Ile Tyr Ser  
 290 295 300  
 Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu Ile Asn Arg  
 305 310 315 320  
 Lys Ile Ser Ser Leu  
 325

<210> 1724  
 <211> 315  
 <212> PRT  
 <213> Unknown (H38g642 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(315)  
 <223> Xaa = Any Amino Acid

<400> 1724  
 Met Arg Pro Asn Asn Ser Ile Thr Glu Phe Val Leu Leu Gly Phe Ser  
 1 5 10 15  
 Gln Asp Pro Gly Met Gln Lys Glu Leu Phe Val Met Phe Leu Phe Thr  
 20 25 30  
 Tyr Val Val Thr Val Leu Gly Asn Gln Leu Ile Val Val Thr Ile Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Cys Leu  
 50 55 60  
 Ser Phe Ile Asp Ala Ala Tyr Phe Thr Val Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Gln Thr Phe Met  
 85 90 95  
 Gly Gln Leu Phe Ile Asp His Phe Phe Gly Gly Ala Glu Ala Phe Leu  
 100 105 110  
 Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Thr Leu  
 115 120 125  
 His Tyr Leu Thr Ile Met Thr Arg Gln Val Cys Ile Leu Ala Leu Leu  
 130 135 140  
 Val Ala Ala Thr Gly Gly Phe Val His Ser Val Phe Gln Ile Val Val  
 145 150 155 160  
 Val Tyr Ser Leu Pro Phe Cys Gly Ala Asn Val Ile Asp His Phe Ser  
 165 170 175  
 Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Xaa Thr Asp Thr Tyr Phe  
 180 185 190  
 Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Leu Cys Met Val Ile  
 195 200 205  
 Phe Thr Leu Leu Ile Ile Ser Tyr Arg Val Ile Leu Asn Ser Leu Lys  
 210 215 220  
 Thr Tyr Thr Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Ile Thr Val Ile Val Leu Phe Phe Ile Pro Cys Ile Ser Ile Tyr  
 245 250 255  
 Val Arg Pro Val Ser Asn Phe Ser Ile Asp Thr Phe Met Thr Val Phe  
 260 265 270  
 Tyr Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Tyr Thr Phe Arg  
 275 280 285  
 Asn Ser Glu Met Arg Asn Val Ile Glu Lys Leu Leu Val Lys Lys Val  
 290 295 300  
 Thr Ile Phe Arg Ile Thr Gly Ser Ile Leu Met  
 305 310 315

<210> 1725  
 <211> 314  
 <212> PRT  
 <213> Unknown (H38g643 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(314)  
 <223> Xaa = Any Amino Acid

<400> 1725  
 Met Arg Gln Asn Lys Asn Asn Thr Glu Phe Val Leu Leu Gly Phe Ser  
 1 5 10 15  
 Gln Asp Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu Leu Thr  
 20 25 30  
 Xaa Leu Val Thr Thr Val Gly Asn Leu Leu Ile Val Val Thr Ile Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Val Tyr Phe Xaa Leu Ala Cys Leu  
 50 55 60  
 Ser Cys Ile Asp Ala Ala Tyr Ser Thr Thr Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Val Glu Leu Leu Ile Asp Lys Lys Thr Ile Ser Phe Arg Ala Cys Met  
 85 90 95  
 Gly Gln Leu Phe Ile Glu His Leu Phe Gly Gly Thr Glu Ile Phe Ile  
 100 105 110  
 Leu Met Met Met Ala Cys Asp Arg Tyr Val Asp Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Leu Thr Ile Met Asn Xaa Gln Val Cys Ile Leu Leu Leu Val  
 130 135 140  
 Leu Ala Val Thr Gly Gly Phe Val His Ser Met Phe Gln Thr Val Val  
 145 150 155 160  
 Val Tyr Asn Leu Pro Phe Ser Gly Pro Asn Val Ile Asp Ile Asp His  
 165 170 175  
 Phe Val Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Phe Thr Asp Thr  
 180 185 190  
 Tyr Phe Ile Gly Leu Thr Val Val Val Asn Gly Gly Ala Met Cys Met  
 195 200 205  
 Val Ile Phe Thr Ile Leu Leu Ile Ser Tyr Gly Ile Ile Leu Asn Ser  
 210 215 220  
 Leu Lys Thr Tyr Ser Gln Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Ser Pro His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe  
 245 250 255  
 Ile Tyr Val Arg Pro Val Ser Thr Phe Pro Ile Asp Lys Phe Met Thr  
 260 265 270  
 Val Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Ser Glu Met Arg Asn Ser Ile Glu Asn Leu Leu Cys Lys  
 290 295 300  
 Lys Ala Ile Cys Ser Xaa Asn Lys Ser Val  
 305 310

<210> 1726  
 <211> 315  
 <212> PRT  
 <213> Unknown (H38g644 protein)

<220>  
 <223> Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1726

```

Glu Xaa Met Arg Gln Asn Asn Ser Ser Thr Glu Phe Val Leu Leu Gly
 1          5          10          15
Phe Ser Gln Asp Pro Asp Val Gln Asn Ala Leu Phe Val Met Phe Leu
          20          25          30
Leu Thr Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Val Thr
          35          40          45
Ile Ile Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala
          50          55          60
His Leu Ser Phe Ile Asp Ala Val Tyr Ser Thr Thr Ile Ser Pro Val
          65          70          75          80
Leu Ile Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Xaa Ala
          85          90          95
Cys Met Gly Gln Leu Phe Ile Asp His Leu Phe Gly Gly Ser Glu Val
          100          105          110
Phe Leu Leu Val Val Met Ala Cys Asp Arg Cys Val Ala Ile Cys Lys
          115          120          125
Pro Leu His Tyr Leu Thr Ile Met Asn Arg Gln Val Cys Ile Leu Leu
          130          135          140
Leu Val Leu Ala Val Thr Gly Gly Phe Val His Pro Val Phe Gln Val
          145          150          155          160
Val Val Val Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His
          165          170          175
Phe Phe Cys Asp Ile Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr
          180          185          190
Tyr Phe Ile Gly Leu Thr Val Val Phe Asn Gly Gly Ala Met Arg Met
          195          200          205
Val Ile Leu Thr Leu Leu Leu Val Phe Tyr Gly Val Ile Leu Asn Ser
          210          215          220
Leu Lys Thr Tyr Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys
          225          230          235          240
Ser Ser His Val Thr Val Val Ile Leu Phe Phe Ala Ser Cys Ile Phe
          245          250          255
Ile Tyr Val Arg Pro Val Ser Asn Phe Pro Val Asp Lys Phe Met Thr
          260          265          270
Val Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Phe Ile Cys Met
          275          280          285
Leu Arg Asn Ser Glu Met Arg Asn Ala Ile Glu Lys Leu Leu Cys Lys
          290          295          300
Met Asn Cys Ser Xaa Asn Lys Ser Val Pro Ser
          305          310          315

```

&lt;210&gt; 1727

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g645 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(313)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1727

```

Met Gly Leu Ser Asn Asn Val Thr Glu Leu Phe Leu Leu Gly Leu Thr

```

1		5		10		15									
Gln	Asp	Leu	Asp	Val	Gln	Asn	Ala	Leu	Phe	Val	Met	Phe	Leu	Leu	Thr
		20						25					30		
Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr	Ile	Ile
		35					40					45			
Ala	Thr	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Cys	Leu
		50				55					60				
Ser	Phe	Ile	Asp	Ala	Val	Tyr	Ser	Thr	Thr	Ile	Tyr	Pro	Lys	Leu	Val
65					70					75					80
Val	Asp	Xaa	Leu	His	Asn	Xaa	Lys	Thr	Ile	Leu	Phe	Pro	Thr	Cys	Met
				85					90					95	
Gly	Gln	Pro	Leu	Thr	Asp	His	Leu	Phe	Gly	Gly	Val	Glu	Val	Phe	Phe
			100					105					110		
Leu	Leu	Val	Met	Ala	Cys	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Phe	Thr	Ile	Met	Asn	Arg	Gln	Val	Phe	Ile	Leu	Leu	Leu	Val
		130				135					140				
Val	Ala	Val	Thr	Gly	Gly	Phe	Val	Arg	Ser	Val	Phe	Gln	Ile	Val	Val
145					150					155					160
Val	Tyr	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Phe
				165					170					175	
Cys	Asn	Met	Tyr	Pro	Leu	Met	Glu	Met	Ala	Xaa	Thr	Asp	Thr	Tyr	Phe
			180					185					190		
Ile	Gly	Leu	Thr	Val	Val	Phe	Lys	Val	Glu	Ala	Ile	Cys	Val	Val	Ile
		195					200					205			
Phe	Thr	Leu	Leu	Leu	Ile	Ser	Ser	Gly	Val	Ile	Leu	Ile	Ser	Leu	Lys
		210				215					220				
Thr	Tyr	Ser	Gln	Glu	Gly	Arg	His	Lys	Ala	Leu	Phe	Thr	Cys	Ser	Ser
225					230					235					240
Arg	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Val	Arg	Pro	Val	Phe	Asn	Phe	Pro	Ile	Asp	Lys	Phe	Ile	Ile	Val	Phe
			260					265					270		
Tyr	Thr	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Met	Leu	Arg
		275					280					285			
Asn	Ser	Xaa	Thr	Arg	Asn	Ala	Ile	Glu	Asn	Pro	Xaa	Cys	Lys	Lys	Leu
		290				295					300				
Thr	Val	Asp	Arg	Ile	Arg	Val	Tyr	Ile							
305					310										

&lt;210&gt; 1728

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g646 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1728

Met	Arg	Pro	Asn	Asn	Ser	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Gln	Asp	Pro	Asp	Met	Gln	Asn	Thr	Leu	Phe	Val	Met	Phe	Leu	Leu	Thr
			20					25					30		
Tyr	Ile	Val	Thr	Val	Val	Gly	Asn	Leu	Leu	Val	Ala	Val	Thr	Ile	Ile
		35				40						45			
Val	Ser	Pro	Ser	Leu	Ser	Ser	Pro	Met	Xaa	Phe	Phe	Leu	Ala	Cys	Leu
	50					55					60				

```

Ser Leu Ile Asp Ala Val Leu Ser Thr Thr Ile Ser Pro Ile Leu Ile
65          70          75          80
Val Asp Leu Leu Cys Asp Lys Lys Thr Ile Ser Phe Pro Ala Cys Met
          85          90          95
Gly Gln Leu Phe Thr Asp His Leu Phe Gly Gly Thr Glu Ile Phe Leu
          100         105         110
Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
          115         120         125
His Tyr Leu Thr Ile Met Asn Arg Gln Val Ser Ile Leu Leu Leu Val
          130         135         140
Val Ala Met Thr Gly Gly Phe Leu His Ser Val Phe Gln Ile Ala Val
145          150         155         160
Leu Tyr Ser Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
          165         170         175
Cys Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asp Thr Tyr Ser
          180         185         190
Ile Gly Leu Thr Val Val Phe Ser Gly Gly Ala Met Cys Met Val Ile
          195         200         205
Phe Ala Leu Leu Leu Ile Ser Tyr Gly Val Ser Leu Asn Ser Leu Lys
210          215         220
Thr Tyr Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Ser Ser
225          230         235         240
His Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr
          245         250         255
Val Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Val Thr Val Phe
          260         265         270
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Phe Leu Tyr Thr Leu Arg
          275         280         285
Asn Ser Glu Met Ile Asn Ala Ile Lys His Leu Leu Cys Lys Lys Leu
290          295         300
Thr Ile Val Arg Ile Arg Val Ser Leu Leu Met
305          310         315

```

&lt;210&gt; 1729

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g647 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(322)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1729

```

Met Gly Ser Ser Asn Asn Val Thr Glu Phe Val Leu Leu Ala Leu Thr
1          5          10          15
Gln Ala Pro Asp Val Gln Lys Val Leu Phe Val Met Phe Leu Phe Thr
          20          25          30
Tyr Ile Val Thr Met Val Gly Asn Leu Leu Thr Val Val Thr Ile Phe
          35          40          45
Ala Ser Pro Ser Leu Gly Ser Pro Val Xaa Leu Phe Leu Ala Cys Leu
          50          55          60
Ser Leu Met Asp Ala Val Tyr Ser Thr Ser Phe Ser Pro Lys Leu Met
65          70          75          80
Ile Asp Leu Leu Cys Asp Lys Lys Thr Val Ser Phe Pro Ala Cys Met
          85          90          95
Gly Gln Leu Phe Ala Asp His Leu Phe Gly Gly Val Glu Val Phe Leu
          100         105         110
Phe Val Gly Met Ala Tyr Asp His Tyr Val Ala Ile Ser Lys Pro Leu

```

```

      115      120      125
His Tyr Leu Ile Ile Val Asn Arg Leu Val Cys Ile Leu Leu Leu Val
  130      135      140
Val Ala Val Thr Gly Gly Phe Xaa His Ser Met Phe Leu Phe Phe Xaa
 145      150      155      160
Ile Tyr Leu Phe Phe Tyr Val Asn Ser Met Phe Gln Ile Val Val Val
      165      170      175
Tyr Ser Leu Pro Phe Cys Gly Ser Asn Val Ile Asp His Ile Val Cys
      180      185      190
Asp Met Tyr Pro Leu Leu Glu Leu Ala Cys Ala Asp Thr Tyr Phe Ile
      195      200      205
Gly Leu Thr Val Ile Ala Asn Gly Gly Ala Ile Cys Met Val Ile Phe
  210      215      220
Cys Leu Leu Leu Thr Ser Tyr Gly Val Ile Leu Asn Phe Leu Lys Thr
 225      230      235      240
Tyr Ser Gln Glu Gly Arg His Arg Thr Leu Ser Thr Cys Ser Ser His
      245      250      255
Ile Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Met Tyr Val
      260      265      270
Arg Pro Val Ser Asn Phe Pro Ile Asp Lys Phe Ile Thr Glu Phe Tyr
      275      280      285
Thr Val Ile Thr Pro Lys Leu Asn Pro Leu Ile Gln Pro Leu Arg Asn
  290      295      300
Xaa Glu Met Arg Ile Thr Met Lys Lys Leu Trp Cys Xaa Thr Xaa Thr
 305      310      315      320
Ile Val

```

&lt;210&gt; 1730

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g648 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1730

```

Met Lys Asn Lys Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
  1      5      10      15
Gln Asn Pro Glu Gly Gln Lys Val Leu Phe Val Thr Phe Leu Leu Ile
      20      25      30
Tyr Met Val Thr Ile Met Gly Asn Leu Leu Ile Ile Val Thr Ile Met
      35      40      45
Ala Ser Gln Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu
      50      55      60
Ser Phe Ile Asp Thr Val Tyr Ser Thr Ala Phe Ala Pro Lys Met Ile
      65      70      75      80
Val Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Gln Gly Cys Met
      85      90      95
Ala Gln Leu Phe Met Asp His Leu Phe Ala Gly Ala Glu Val Ile Leu
      100      105      110
Leu Val Val Met Ala Tyr Asp Arg Tyr Met Ala Ile Cys Lys Pro Leu
      115      120      125
His Glu Leu Ile Thr Met Asn Arg Arg Val Cys Val Leu Met Leu Leu
      130      135      140
Ala Ala Trp Ile Gly Gly Phe Leu His Ser Leu Val Gln Phe Leu Phe
  145      150      155      160
Ile Tyr Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp Asn Phe Leu
      165      170      175
Cys Asp Leu Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asn Thr Tyr Val
      180      185      190

```

Thr Gly Leu Ser Met Ile Ala Asn Gly Gly Ala Ile Cys Ala Val Thr  
 195 200 205  
 Phe Phe Thr Ile Leu Leu Ser Tyr Gly Val Ile Leu His Ser Leu Lys  
 210 215 220  
 Thr Gln Ser Leu Glu Gly Lys Arg Lys Ala Phe Tyr Thr Cys Ala Ser  
 225 230 235 240  
 His Val Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr  
 245 250 255  
 Ala Arg Pro Asn Ser Thr Phe Pro Ile Asp Lys Ser Met Thr Val Val  
 260 265 270  
 Leu Thr Phe Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Lys  
 275 280 285  
 Asn Ala Glu Met Lys Ser Ala Met Arg Lys Leu Trp Ser Lys Lys Val  
 290 295 300  
 Ser Leu Ala Gly Lys Trp  
 305 310

&lt;210&gt; 1731

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g649 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1731

Met Val Gly Asn Leu Leu Ile Trp Val Thr Thr Ile Gly Ser Pro Ser  
 1 5 10 15  
 Leu Gly Ser Leu Met Tyr Phe Phe Leu Ala Tyr Leu Ser Leu Met Asp  
 20 25 30  
 Ala Ile Tyr Ser Thr Ala Met Ser Pro Lys Leu Met Ile Asp Leu Leu  
 35 40 45  
 Cys Asp Lys Ile Ala Ile Ser Leu Ser Ala Cys Met Gly Gln Leu Phe  
 50 55 60  
 Ile Glu His Leu Leu Gly Gly Ala Glu Val Phe Leu Leu Val Val Met  
 65 70 75 80  
 Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro Leu His Tyr Leu Asn  
 85 90 95  
 Ile Met Asn Arg Leu Val Cys Ile Leu Leu Leu Val Val Ala Met Ile  
 100 105 110  
 Gly Gly Phe Val His Ser Val Val Gln Ile Val Phe Leu Tyr Ser Leu  
 115 120 125  
 Pro Ile Cys Gly Pro Asn Val Ile Asp His Ser Val Cys Asp Met Tyr  
 130 135 140  
 Pro Leu Leu Glu Leu Leu Cys Leu Asp Thr Tyr Phe Ile Gly Leu Thr  
 145 150 155 160  
 Val Val Ala Asn Gly Gly Ile Ile Cys Met Val Ile Phe Thr Phe Leu  
 165 170 175  
 Leu Ile Ser Cys Gly Val Ile Leu Asn Phe Leu Lys Thr Tyr Ser Gln  
 180 185 190  
 Glu Glu Arg His Lys Ala Leu Pro Thr Cys Ile Ser His Ile Ile Val  
 195 200 205  
 Val Ala Leu Val Phe Val Pro Cys Ile Phe Met Tyr Val Arg Pro Val  
 210 215 220  
 Ser Asn Phe Pro Phe Asp Lys Leu Met Thr Val Phe Tyr Ser Ile Ile  
 225 230 235 240  
 Thr Leu Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Gln Ser Glu Met  
 245 250 255  
 Lys Asn Ala Met Lys Asn Leu Trp Cys Glu Lys Leu Ser Ile Val Arg  
 260 265 270  
 Lys Arg Val

275

<210> 1732  
 <211> 218  
 <212> PRT  
 <213> Unknown (H38g650 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(218)  
 <223> Xaa = Any Amino Acid

<400> 1732  
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
 1 5 10 15  
 Asp Ile Gln Ser His Ser Arg Leu Ile Ser Xaa Ala Gly Cys Leu Thr  
 20 25 30  
 Pro Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu  
 35 40 45  
 Leu Ser Val Ile Ala Tyr Asp Pro Phe Val Ala Ile Cys His Pro Leu  
 50 55 60  
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu  
 65 70 75 80  
 Leu Ser Phe Phe Ser Gln Ser Leu Leu Asp Ala Gln Val His Asn Leu  
 85 90 95  
 Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe  
 100 105 110  
 Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe  
 115 120 125  
 Thr Asn Asn Ile Ile Met Tyr Ser Pro Ala Ala Ile Phe Gly Phe Leu  
 130 135 140  
 Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile  
 145 150 155 160  
 Leu Arg Val Ser Ser Gly Gly Lys Tyr Lys Ala Leu Ser Thr Cys  
 165 170 175  
 Gly Ser Arg Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly  
 180 185 190  
 Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val  
 195 200 205  
 Ala Ser Val Met Tyr Thr Val Val Thr Pro  
 210 215

<210> 1733  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g651 protein)

<220>  
 <223> Synthetic construct

<400> 1733  
 Ser Met Ala Leu Met Leu Ile Cys Thr Thr Gly Pro Lys Met Ala Phe  
 1 5 10 15  
 Asn Tyr Leu Ser Gly Ser Lys Ser His Phe Tyr Gly Cys Cys Ala Thr  
 20 25 30  
 Gln Ile Phe Phe Tyr Thr Ser Leu Leu Gly Ser Glu Cys Phe Leu Leu  
 35 40 45  
 Ala Val Met Ala Tyr Asp Arg Tyr Thr Ala Ile Cys His Pro Leu Arg  
 50 55 60



```

Tyr Thr Asn Leu Met Ser Pro Lys Ile Cys Gly Leu Met Thr Ala Phe
65          70          75          80
Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Val Val Ala Thr
          85          90          95
Phe Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys
          100          105          110
Asp Phe Pro Ser Leu Leu Ile Leu Ser Cys Ser Asp Thr Ser Ile Phe
          115          120          125
Glu Lys Ile Leu Phe Ile Cys Cys Ile Val Met Ile Val Phe Pro Val
          130          135          140
Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala Val Ile His
145          150          155          160
Met Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr Cys Ser Ser
          165          170          175
His Leu Leu Val Val Gly Met Tyr Tyr Gly Ala Ala Leu Phe Met Tyr
          180          185          190
Ile Arg Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys Met Val Ser
          195          200          205
Val Phe Tyr Thr Ile Leu Thr Pro
          210          215

```

&lt;210&gt; 1734

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g652 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(212)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1734

```

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu
1          5          10          15
Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr
          20          25          30
Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Glu Ile Phe Val Leu
          35          40          45
Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu Arg
          50          55          60
Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu
65          70          75          80
Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr
          85          90          95
Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Glu His Tyr Phe Cys
          100          105          110
Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val
          115          120          125
Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe
          130          135          140
Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys
145          150          155          160
Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His
          165          170          175
Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg
          180          185          190
Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr
          195          200          205
Thr Ile Thr Pro

```

210

<210> 1735  
 <211> 223  
 <212> PRT  
 <213> Unknown (H38g653 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(223)  
 <223> Xaa = Any Amino Acid

<400> 1735  
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
 1 5 10 15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
 20 25 30  
 Gln Met Ser Leu Phe Ala Ile Phe Xaa Gly Arg Glu Glu Ser Met Leu  
 35 40 45  
 Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Pro  
 50 55 60  
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Val Cys  
 65 70 75 80  
 Cys Pro Cys Phe Phe Phe Phe Phe Phe Leu Ser Leu Leu Asp Ser  
 85 90 95  
 Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val  
 100 105 110  
 Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala  
 115 120 125  
 Cys Cys Asp Ile Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala  
 130 135 140  
 Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys  
 145 150 155 160  
 Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Arg Tyr Lys  
 165 170 175  
 Ala Leu Ser Thr Cys Gly Ser His Val Ser Val Val Cys Xaa Val Tyr  
 180 185 190  
 Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Phe Ser Pro  
 195 200 205  
 Arg Lys Gly Ala Val Ala Ser Val Met Tyr Ala Val Val Thr Pro  
 210 215 220

<210> 1736  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g654 protein)

<220>  
 <223> Synthetic construct

<400> 1736  
 Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln Met Leu Val  
 1 5 10 15  
 Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly Cys Val Ala  
 20 25 30  
 Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr Leu Leu Leu  
 35 40 45  
 Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg Pro Leu His  
 50 55 60

```

Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu Ala Ala Ala
65          70          75          80
Ser Arg Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser Thr Leu Thr
85          90          95
Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His Phe Leu Cys
100        105        110
Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr Thr Ala Asn
115        120        125
Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu Ile Pro Leu
130        135        140
Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala Val Leu Arg
145        150        155        160
Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr Cys Gly Ser
165        170        175
His Leu Ile Val Val Ser Leu Phe Asn Ser Thr Ala Val Ser Val Tyr
180        185        190
Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys Met Val Ser
195        200        205
Leu Phe Tyr Gly Ile Ile Ala Pro
210        215

```

&lt;210&gt; 1737

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g655 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(218)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1737

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Ile Val Pro Lys Met Ile Val
1          5          10          15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr
20        25        30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Asp Ser Met Leu
35        40        45
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
50        55        60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu
65        70        75          80
Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln Leu His Asn Leu
85        90        95
Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe
100       105       110
Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
115       120       125
Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
130       135       140
Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Ser Ser Ile
145       150       155       160
Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Tyr
165       170       175
Gly Ser His Leu Ser Asp Val Ser Xaa Phe Tyr Gly Thr Gly Val Gly
180       185       190
Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val
195       200       205
Ala Ser Val Met Tyr Thr Val Val Thr Pro

```

210

215

<210> 1738  
 <211> 221  
 <212> PRT  
 <213> Unknown (H38g656 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(221)  
 <223> Xaa = Any Amino Acid

<400> 1738  
 Phe Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
 1 5 10 15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Pro Thr  
 20 25 30  
 Gln Met Ser Leu Phe Ala Ile Phe Gly Asp Thr Glu Glu Asn Met Phe  
 35 40 45  
 Leu Ser Val Val Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu  
 50 55 60  
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Ser  
 65 70 75 80  
 Leu Ser Leu Val Phe Phe Phe Phe Phe Ser Leu Leu Asp Ser Gln Leu  
 85 90 95  
 His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile  
 100 105 110  
 Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys Cys  
 115 120 125  
 Asp Ile Phe Thr Arg Asn Ile Asn Leu Tyr Phe Pro Ala Ala Ile Phe  
 130 135 140  
 Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Cys Tyr Lys Ile Val  
 145 150 155 160  
 Ser Phe Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe  
 165 170 175  
 Ser Ala Cys Gly Ser His Leu Ser Val Val Tyr Xaa Phe Tyr Gly Thr  
 180 185 190  
 Gly Phe Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys  
 195 200 205  
 Thr Ala Val Ala Ser Val Met Tyr Ala Val Val Thr Pro  
 210 215 220

<210> 1739  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g657 protein)

<220>  
 <223> Synthetic construct

<400> 1739  
 Val Leu Asp Val Gly Cys Ile Thr Val Thr Val Pro Ala Met Leu Gly  
 1 5 10 15  
 Arg Leu Leu Ser His Lys Ser Thr Ile Ser Tyr Asp Ala Cys Leu Ser  
 20 25 30  
 Gln Leu Phe Phe Phe His Leu Leu Ala Gly Met Asp Cys Phe Leu Leu  
 35 40 45  
 Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala Ile Cys Gln Pro Leu Thr  
 50 55 60

Tyr Ser Thr Arg Met Ser Gln Thr Val Gln Arg Met Leu Val Ala Ala  
 65 70 75 80  
 Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu Thr His Thr Val Ala Met  
 85 90 95  
 Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu Val Asn His Phe Tyr Cys  
 100 105 110  
 Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys Ser Ser Thr Gln Leu Asn  
 115 120 125  
 Glu Leu Leu Phe Val Ala Ala Phe Met Ala Val Ala Pro Leu  
 130 135 140  
 Val Phe Ile Ser Val Pro Tyr Ala His Val Val Ala Ala Val Leu Gln  
 145 150 155 160  
 Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Leu Thr Val Val Gly Ile Phe Tyr Gly Thr Gly Val Phe Ser Tyr  
 180 185 190  
 Met Arg Leu Gly Ser Val Glu Ser Ser Asp Lys Asp Lys Gly Val Gly  
 195 200 205  
 Val Phe Met Thr Val Ile Asn Pro  
 210 215

<210> 1740

<211> 212

<212> PRT

<213> Unknown (H38g658 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(212)

<223> Xaa = Any Amino Acid

<400> 1740

Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met Ile Glu  
 1 5 10 15  
 Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys Ile Thr  
 20 25 30  
 Gln Met Phe Thr Phe His Phe Phe Gly Cys Ala Asp Ile Phe Val Leu  
 35 40 45  
 Thr Val Met Ala Phe Asp Arg Cys Ala Ala Ile Cys Gln Pro Leu Arg  
 50 55 60  
 Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala Ser Leu  
 65 70 75 80  
 Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu Leu Thr  
 85 90 95  
 Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr Phe Cys  
 100 105 110  
 Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr Leu Val  
 115 120 125  
 Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly Cys Phe  
 130 135 140  
 Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu Gln Lys  
 145 150 155 160  
 Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly Ser His  
 165 170 175  
 Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile Tyr Arg  
 180 185 190  
 Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe Tyr Thr  
 195 200 205  
 Thr Ile Thr Pro

210

<210> 1741  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g659 protein)

<220>  
 <223> Synthetic construct

<400> 1741  
 Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln  
 1 5 10 15  
 Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp Cys Leu Thr  
 20 25 30  
 Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser Phe Leu Leu  
 35 40 45  
 Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His  
 50 55 60  
 Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ala Leu Val Ala Leu  
 65 70 75 80  
 Ser Trp Val Leu Thr Phe His Ala Met Leu His Thr Leu Leu Met  
 85 90 95  
 Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys  
 100 105 110  
 Asp Met Ser Ala Leu Leu Lys Leu Ala Phe Ser Asp Thr Arg Val Asn  
 115 120 125  
 Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe  
 130 135 140  
 Leu Leu Ile Leu Gly Ser Tyr Ala Arg Val Val Ser Ser Ile Leu Lys  
 145 150 155 160  
 Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr  
 180 185 190  
 Leu Cys Ser Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala  
 195 200 205  
 Met Met Tyr Thr Val Val Thr Pro  
 210 215

<210> 1742  
 <211> 146  
 <212> PRT  
 <213> Unknown (H38g660 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(146)  
 <223> Xaa = Any Amino Acid

<400> 1742  
 Thr Leu Gln Asn Ile Thr Ser Thr Ser Ile Ile Phe Leu Leu Thr Gly  
 1 5 10 15  
 Val Pro Gly Leu Glu Ala Phe His Thr Trp Ile Ser Ile Pro Phe Cys  
 20 25 30  
 Phe Leu Ser Val Thr Ala Leu Leu Gly Asn Ser Leu Ile Leu Phe Ala  
 35 40 45  
 Thr Ile Thr Gln Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser  
 50 55 60

Met Leu Ser Ala Thr Asp Leu Gly Leu Ser Ile Ser Thr Leu Val Thr  
 65 70 75 80  
 Met Leu Ser Ile Phe Trp Phe Asn Val Arg Glu Ile Ser Phe Asn Ala  
 85 90 95  
 Cys Leu Ser His Met Phe Phe Ile Lys Phe Phe Thr Val Met Glu Ser  
 100 105 110  
 Ser Val Leu Leu Ala Met Ala Phe Asp Arg Leu Val Pro Ser Leu Ser  
 115 120 125  
 Pro Xaa Tyr Ala Met Ile Xaa Leu Thr Gln Ile Ala Lys Met Ser Ala  
 130 135 140  
 Val Tyr  
 145

&lt;210&gt; 1743

&lt;211&gt; 334

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g661 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(334)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1743

Ala Gly Val Glu Asn Asp Asn Thr Ser Ser Phe Glu Gly Phe Ile Leu  
 1 5 10 15  
 Val Gly Phe Ser Asp Arg Pro His Leu Glu Leu Ile Val Phe Val Val  
 20 25 30  
 Val Leu Ile Phe Tyr Leu Leu Thr Leu Leu Gly Asn Met Thr Ile Val  
 35 40 45  
 Leu Leu Ser Ala Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ala Asn Leu Ser Phe Leu Asp Met Cys Phe Thr Thr Gly Ser Ile  
 65 70 75 80  
 Pro Gln Met Leu Tyr Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr  
 85 90 95  
 Val Gly Cys Ala Ile Gln Leu Tyr Phe Val Leu Ala Leu Gly Gly Val  
 100 105 110  
 Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Val  
 115 120 125  
 Cys Lys Pro Leu His Tyr Thr Ile Ile Met His Pro Arg Leu Cys Gly  
 130 135 140  
 Gln Leu Ala Ser Val Ala Trp Leu Ser Gly Phe Gly Asn Ser Leu Ile  
 145 150 155 160  
 Met Ala Pro Gln Thr Leu Met Leu Pro Arg Cys Gly His Arg Arg Val  
 165 170 175  
 Asp His Phe Leu Cys Glu Met Pro Ala Leu Ile Gly Met Ala Cys Val  
 180 185 190  
 Asp Thr Met Met Leu Glu Ala Leu Ala Phe Ala Leu Ala Ile Phe Ile  
 195 200 205  
 Ile Leu Ala Pro Leu Ile Leu Ile Leu Ile Ser Tyr Gly Tyr Val Gly  
 210 215 220  
 Gly Thr Val Leu Arg Ile Lys Ser Ala Ala Gly Arg Lys Lys Ala Phe  
 225 230 235 240  
 Asn Thr Cys Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr  
 245 250 255  
 Ile Ile Tyr Met Tyr Leu Gln Pro Ala Asn Thr Tyr Ser Gln Asp Gln  
 260 265 270  
 Gly Lys Phe Leu Thr Leu Phe Tyr Thr Ile Val Thr Pro Ser Val Asn

275	280	285
Pro Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Glu Ala Met Lys		
290	295	300
Lys Val Leu Gly Lys Gly Ser Ala Glu Ile Xaa Xaa Gly Val Ile Lys		
305	310	315
Leu Trp Asp Cys Ile Leu Thr His Leu Leu Tyr Met Leu Leu		
325	330	

<210> 1744  
 <211> 275  
 <212> PRT  
 <213> Unknown (H38g662 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(275)  
 <223> Xaa = Any Amino Acid

<400> 1744

Leu Tyr Leu Ile Lys His Asp His Ser Leu His Glu Pro Met Tyr Tyr		
1	5	10
Phe Leu Thr Met Leu Ala Gly Thr Asp Leu Met Val Thr Leu Thr Thr		
20	25	30
Met Pro Thr Val Met Gly Ile Leu Trp Val Asn His Arg Glu Ile Ser		
35	40	45
Ser Val Gly Cys Phe Leu Gln Ala Tyr Phe Ile His Ser Leu Ser Val		
50	55	60
Val Glu Ser Gly Ser Leu Leu Ala Met Ala Tyr Asp Arg Leu Ile Ala		
65	70	75
Ile Arg Asn Pro Leu Arg Tyr Ala Ser Ile Ser Thr Asn Thr Arg Val		
85	90	95
Ile Ala Leu Gly Val Gly Leu Phe Leu Arg Gly Leu Val Ser Ile Leu		
100	105	110
Pro Val Ile Leu Arg Leu Phe Pro Phe Pro Tyr Gly Lys Ser His Val		
115	120	125
Ile Thr Arg Ala Phe Cys Leu His Gln Glu Ile Met Arg Leu Ala Cys		
130	135	140
Ala Asp Ile Thr Ser Asn Lys Leu Tyr Pro Val Ile Leu Ile Ser Leu		
145	150	155
Thr Ile Ser Leu Asn Ser Leu Ile Thr Pro Ser Ser Tyr Ile Leu Ile		
165	170	175
Leu Asn Thr Val Ile Gly Ile Ala Ser Gly Glu Glu Lys Thr Lys Ala		
180	185	190
Leu Asn Thr Cys Ile Ser His Ile Ser Cys Val Leu Ile Ser Tyr Val		
195	200	205
Thr Val Met Gly Leu Thr Phe Ile Tyr Lys Phe Gly Lys Asn Val Pro		
210	215	220
Lys Val Val His Ile Ile Ser Tyr Ile Tyr Phe Leu Phe Pro Pro		
225	230	235
Leu Met Asn Pro Val Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Tyr		
245	250	255
Gly Ile Ile Arg Leu Leu Ser Lys His Arg Phe Ser Arg Xaa Thr Arg		
260	265	270
Ile Trp Lys		
275		

<210> 1745  
 <211> 219  
 <212> PRT



<213> Unknown (H38g663 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(219)

<223> Xaa = Any Amino Acid

<400> 1745

```

Leu Ala Asp Ile Gly Phe Thr Ser Asn Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
           20           25           30
Gln Met Ser Leu Phe Ala Val Phe Gly Gly Met Glu Glu Asn Met Leu
           35           40           45
Leu Ser Val Arg Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
           50           55           60
Tyr Cys Ser Ala Ile Phe Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu
65           70           75           80
Leu Ser Phe Phe Phe Phe Phe Leu Ser Leu Ser Asp Ser Gln Leu His
           85           90           95
Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro
           100          105          110
Asn Phe Phe Trp Glu Pro Ser Gln Leu Ser His Leu Ala Cys Cys Asp
           115          120          125
Thr Phe Thr Arg Asn Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe
           130          135          140
Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Phe Ser
145          150          155          160
Ile Leu Arg Val Ser Ser Ser Gly Gly Lys His Lys Ala Phe Ser Thr
           165          170          175
Arg Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Ile
           180          185          190
Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Ala Ala
           195          200          205
Val Ala Ser Val Met Tyr Thr Val Ala Ile Pro
           210          215

```

<210> 1746

<211> 218

<212> PRT

<213> Unknown (H38g664 protein)

<220>

<223> Synthetic construct

<400> 1746

```

Leu Pro Asp Ile Gly Phe Pro Ser Pro Thr Val Pro Lys Met Val Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
           20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Thr Leu Leu
           35           40           45
Leu Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile Cys His Pro Leu
           50           55           60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu
65           70           75           80
Leu Ser Phe Phe Phe Leu Gly Leu Leu Asp Ala Gln Leu His Asn Met
           85           90           95
Ile Ala Leu Gln Met Thr Cys Ile Lys Asp Val Glu Ile Pro Asn Phe

```

<220>  
<223> Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(216)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1748

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
          35           40           45
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
          50           55           60
Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
          65           70           75           80
Leu Ser Phe Phe Phe Ser Phe Ser Gln Leu His Asn Leu Ile Ala Leu
          85           90           95
Lys Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Cys Asp
          100          105          110
Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Asn Lys
          115          120          125
Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser
          130          135          140
Gly Thr Leu Phe Ser Tyr Ser Lys Ile Val Ser Ser Ile Leu Arg Val
          145          150          155          160
Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His
          165          170          175
Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly Gly Tyr Leu
          180          185          190
Ser Ser Asp Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val Ala Ser
          195          200          205
Val Met Tyr Thr Val Val Thr Pro
          210          215

```

&lt;210&gt; 1749

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g667 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1749

```

Ile Ile Asp Ile Ser Tyr Ala Ser Asn Lys Val Pro Lys Met Leu Thr
 1           5           10           15
Asn Leu Gly Leu Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr
          20           25           30
Met Gln Thr Phe Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile
          35           40           45
Leu Val Met Met Ser Tyr Asp Arg Tyr Met Ala Ile Cys His Pro Leu
          50           55           60
Gln Tyr Ser Val Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val
          65           70           75           80
Thr Ser Trp Ala Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu
          85           90           95
Ile Leu Arg Leu Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe
          100          105          110
Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu
          115          120          125
Asn Gln Val Val Ile Phe Ala Ala Ser Val Phe Ile Leu Val Gly Pro

```

130		135		140
Leu Cys Leu Val Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu				
145		150		155
Gly Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser				160
		165		170
Ser His Leu Cys Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Met				175
		180		185
Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu				190
		195		200
Ser Leu Phe Tyr Ser Leu Phe Asn Pro				205
210		215		

&lt;210&gt; 1750

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g668 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1750

Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Thr Val Ile Ala		
1	5	10
Gly Leu Val Ile Gly Asp Glu Val Ile Ser Tyr Ser Ala Cys Ala Ala		15
	20	25
Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu Asn Phe Leu Leu		30
	35	40
Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val Cys Lys Pro Leu His		45
	50	55
Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala Cys Leu Ala Ile Ile		60
65	70	75
Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile His Ile Gly Glu Thr		80
	85	90
Leu Ser Leu Phe Leu Asn Gly Pro Asn Glu Val His Cys Ile Phe Cys		95
	100	105
Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys Asp Arg His Val Asn		110
	115	120
Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn Ile Phe Ser Ala Ile		125
	130	135
Leu Val Ile Leu Val Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu Glu		140
145	150	155
Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu Ser Asn Cys Ala Ser		160
	165	170
His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Ile Ile Phe Met Tyr		175
	180	185
Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Leu Ala Ser		190
	195	200
Val Phe Tyr Thr Met Ile Ile Pro		205
210	215	

&lt;210&gt; 1751

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g669 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1751

Met Ala Ala Glu Asn Ser Ser Phe Val Thr Gln Phe Ile Leu Ala Gly	
1	5
	10
	15

Leu Thr Asp Gln Pro Gly Val Gln Ile Pro Leu Phe Phe Leu Phe Leu  
 20 25 30  
 Gly Phe Tyr Val Val Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu  
 35 40 45  
 Ile Arg Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Tyr  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Ser Phe Val Leu Lys Lys Asn Ser Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Val Ser Glu Ser  
 100 105 110  
 Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Met Val Thr Met Ser Pro Gln Val Cys Phe Leu Leu  
 130 135 140  
 Leu Leu Gly Val Tyr Gly Met Gly Phe Ala Gly Ala Met Ala His Thr  
 145 150 155 160  
 Ala Cys Met Met Gly Val Thr Phe Cys Ala Asn Asn Leu Val Asn His  
 165 170 175  
 Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Cys Ala Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Leu Val Val Phe Val Val Val Gly Ile Asp Ile Gly  
 195 200 205  
 Val Pro Thr Val Thr Ile Phe Ile Ser Tyr Ala Leu Ile Leu Ser Ser  
 210 215 220  
 Ile Phe His Ile Asp Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala  
 245 250 255  
 Phe Met Tyr Leu Lys Pro Phe Ser Leu Leu Ala Met Asn Gln Gly Lys  
 260 265 270  
 Val Ser Ser Leu Phe Tyr Thr Thr Val Val Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Lys Lys Ile  
 290 295 300  
 Leu Asn Lys Asn Ala Phe Ser  
 305 310

&lt;210&gt; 1752

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g670 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1752

Met Thr Leu Arg Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Val Gly  
 1 5 10 15  
 Leu Ser Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Gly Ile Tyr Val Phe Thr Val Val Gly Asn Leu Gly Leu Ile Thr Leu  
 35 40 45  
 Ile Gly Ile Asn Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Cys Val Phe Thr Pro Lys  
 65 70 75 80  
 Met Leu Asn Asp Phe Val Ser Glu Ser Ile Ile Ser Tyr Val Gly Cys  
 85 90 95  
 Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Asn Ser Glu Cys Tyr

```

          100          105          110
Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
          115          120          125
Leu Leu Tyr Met Val Thr Met Ser Pro Arg Val Cys Phe Leu Leu Met
          130          135          140
Phe Gly Ser Tyr Val Val Gly Phe Ala Gly Ala Met Ala His Thr Gly
145          150          155
Ser Met Leu Arg Leu Thr Phe Cys Asp Ser Asn Val Ile Asp His Tyr
          165          170          175
Leu Cys Asp Val Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr His
          180          185          190
Val Ser Glu Leu Val Phe Phe Ile Val Val Gly Val Ile Thr Met Leu
          195          200          205
Ser Ser Ile Ser Ile Val Ile Ser Tyr Ala Leu Ile Leu Ser Asn Ile
          210          215          220
Leu Cys Ile Pro Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Trp
225          230          235
Gly Ser His Ile Ile Ala Val Ala Leu Phe Phe Gly Ser Gly Thr Phe
          245          250          255
Thr Tyr Leu Thr Thr Ser Phe Pro Gly Ser Met Asn His Gly Arg Phe
          260          265          270
Ala Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Ser Ile
          275          280          285
Tyr Ser Leu Arg Asn Lys Asp Lys Leu Ala Leu Gly Lys Thr Leu
          290          295          300
Lys Arg Val Leu Phe
305

```

&lt;210&gt; 1753

&lt;211&gt; 297

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g671 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(297)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1753

```

Met Lys Xaa Met Ala Val Glu Asn Asn Ser Ser Val Thr Glu Phe Ile
  1          5          10          15
Leu Val Arg Leu Thr Asn Ser Arg Cys Pro Ser Val Leu Phe Leu Met
          20          25          30
Trp Ser Leu Trp Gly Glu Phe Glu His Asn Phe Met Ser Leu Asn Ser
          35          40          45
His Leu His Thr Pro Thr His Phe Phe Leu Phe Thr Leu Ser Phe Ile
          50          55          60
Asp Val Cys Tyr Ser Phe Val Cys Thr Thr Lys Ile Pro Met Gly Phe
65          70          75          80
Ile Ser Glu Arg Asn Ile Ile Ser Phe Val Gly Trp Pro Thr Xaa Leu
          85          90          95
Tyr Phe Phe Cys Ile Phe Val Lys Glu Pro Lys Asn Gly Val Ile Val
          100          105          110
Gly Ile Met Phe Ser Ala Lys Met Leu Val Cys Arg Glu Ile Met Asp
          115          120          125
Xaa Ser Leu Met Xaa Asn Xaa Lys Met His Met Ala Leu Glu Arg Ser
          130          135          140
Asp Phe Arg Met Gly Xaa Thr Gly Ser Ala Thr Lys Lys His Leu Ile
145          150          155          160

```

Ile Phe Leu Tyr Tyr Ser Asp Tyr Phe Gln Arg Xaa Xaa Gly Cys Arg  
 165 170 175  
 Ala Leu Gly Gln Gly Ser Leu Ala Lys Gln Asp Thr Thr Leu Xaa Asn  
 180 185 190  
 Cys Thr Cys Thr Leu Lys Ser Leu Leu His Ile Ile Ile Cys Phe Tyr  
 195 200 205  
 Ile Trp Lys Gln Lys Lys Ile Ser Tyr Leu Tyr His Lys Ser Xaa Lys  
 210 215 220  
 Met Asp Leu Tyr Lys Ile Cys His Val Leu Trp Val Thr His Lys Lys  
 225 230 235 240  
 Asn Phe Leu Arg Pro Ser Ser Thr Ser Gln Met Val Gln Gly Lys Met  
 245 250 255  
 Leu Leu Lys Gly Tyr Ile Xaa Phe Trp Arg Met Ser Leu Pro Met Cys  
 260 265 270  
 Ala Ile Phe Ile Phe Val Arg Arg Tyr Tyr Tyr Leu Leu Lys Lys Leu  
 275 280 285  
 Lys Thr Leu Leu Tyr Lys Asn Ser Tyr  
 290 295

&lt;210&gt; 1754

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g672 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1754

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly  
 1 5 10 15  
 Leu Thr Asp Arg Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu  
 20 25 30  
 Val Val Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Ile Leu  
 35 40 45  
 Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Tyr Val Gly  
 85 90 95  
 Cys Met Thr Gln Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys  
 100 105 110  
 Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu  
 130 135 140  
 Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr  
 145 150 155 160  
 Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His  
 165 170 175  
 Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Ile Asn Ile Met  
 195 200 205  
 Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser  
 210 215 220  
 Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala  
 245 250 255  
 Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val

	260		265		270										
Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Lys	Ala	Leu
	290					295					300				
Ile	Lys	Ile	Gln	Arg	Arg	Asn	Ile	Phe							
305						310									

&lt;210&gt; 1755

&lt;211&gt; 357

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g673 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1755

Met	Asn	Trp	Val	Asn	Lys	Ser	Val	Pro	Gln	Glu	Phe	Ile	Leu	Leu	Val
1				5					10				15		
Phe	Ser	Asp	Gln	Pro	Trp	Leu	Glu	Ile	Pro	Pro	Phe	Val	Met	Phe	Leu
		20					25					30			
Phe	Ser	Tyr	Ile	Leu	Thr	Ile	Phe	Gly	Asn	Leu	Thr	Ile	Ile	Leu	Val
	35					40						45			
Ser	His	Val	Asp	Phe	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50				55						60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65					70					75				80	
Met	Leu	Val	Asn	Ile	Cys	Asn	Thr	Arg	Lys	Val	Ile	Ser	Tyr	Gly	Gly
			85						90					95	
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys
		100						105					110		
Leu	Leu	Leu	Ala	Val	Met	Cys	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg
	115						120					125			
Pro	Leu	His	Tyr	Ser	Ile	Ile	Met	His	Gln	Arg	Leu	Cys	Phe	Gln	Leu
	130				135						140				
Ala	Ala	Ala	Ser	Trp	Ile	Ser	Gly	Phe	Ser	Asn	Ser	Val	Leu	Gln	Ser
145					150					155				160	
Thr	Trp	Thr	Leu	Lys	Met	Pro	Leu	Cys	Gly	His	Lys	Glu	Val	Asp	His
			165						170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Asp	Thr
		180						185					190		
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Ile	Ser	Val	Leu	Phe	Leu	Leu	
	195					200					205				
Ile	Pro	Val	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Gln	Ala
	210				215						220				
Val	Leu	Arg	Ile	Gln	Ser	Ala	Glu	Gly	Gln	Arg	Lys	Ala	Phe	Gly	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ala	Ile
			245						250					255	
Ser	Met	Tyr	Leu	Gln	Pro	Pro	Ser	Pro	Ser	Ser	Lys	Asp	Arg	Gly	Lys
		260						265					270		
Met	Val	Ser	Leu	Phe	Cys	Gly	Ile	Ile	Ala	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Phe	Lys	Arg	Leu
	290					295					300				
Val	Ala	Lys	Ser	Leu	Leu	Asn	Gln	Glu	Ile	Arg	Asn	Met	Gln	Met	Ile
305					310					315				320	
Ser	Phe	Ala	Lys	Asp	Thr	Val	Leu	Thr	Tyr	Leu	Thr	Asn	Phe	Ser	Ala
			325						330				335		
Ser	Cys	Pro	Ile	Phe	Val	Ile	Thr	Ile	Glu	Asn	Tyr	Cys	Asn	Leu	Pro
			340					345					350		



Gln Arg Lys Phe Pro  
355

<210> 1756  
<211> 331  
<212> PRT  
<213> Unknown (H38g674 protein)

<220>  
<223> Synthetic construct

<221> VARIANT  
<222> (1)...(331)  
<223> Xaa = Any Amino Acid

<400> 1756  
Met Ala Pro Gly Asn Gly Phe Phe Met Thr Lys Ile Ile Leu Leu Glu  
1 5 10 15  
Leu Thr Asp Gln Pro Asp Leu Gln Leu Pro Leu Phe Phe Leu Phe Leu  
20 25 30  
Val Tyr Gly His Cys Val Gly Lys Phe Gly Leu Val Thr Leu Val Val  
35 40 45  
Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe Asn Leu  
50 55 60  
Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Gln Met Leu  
65 70 75 80  
Met Asn Phe Ile Thr Gln Lys Asp Ile Ile Ser His Met Gly Cys Met  
85 90 95  
Ser Gln Leu Phe Phe Phe Ala Leu Phe Phe Phe Gly Ile Ser Glu Cys  
100 105 110  
Tyr Val Leu Thr Ser Met Ala Tyr Asp Arg Ala Cys His His Asp His  
115 120 125  
His Val Ala Ile Cys Asn Pro Leu Leu Tyr Asn Ile Ala Met Ser Pro  
130 135 140  
Lys Val Tyr Ser His Leu Met Leu Gly Leu Tyr Leu Leu Ala Phe Ser  
145 150 155 160  
Ser Ala Met Ala His Thr Gly Cys Met Leu Arg Leu Thr Phe Cys Asp  
165 170 175  
Ala Asn Thr Ile His Pro Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln  
180 185 190  
Leu Ser Cys Thr Gly Thr Tyr Ile Asn Glu Leu Val Val Ser Thr Ala  
195 200 205  
Ala Val Ile Ile Ser Thr Val Thr Ile Phe Ile Ser Cys Gly Cys Ser  
210 215 220  
Ser Tyr Ile Ile Leu His Ile Asn Ser Lys Glu Gly Arg Ser Lys Ala  
225 230 235 240  
Leu Asn Thr Cys Ser Ser Asn Leu Ile Ala Val Ser Leu Met Phe Gly  
245 250 255  
Ser Cys Ala Phe Met Cys Leu Lys Pro Ser Ser Ala Gly Ser Met Asp  
260 265 270  
Glu Gly Lys Ile Ser Ser Val Phe Tyr Thr Asn Thr Ala Pro Leu Met  
275 280 285  
Asn Pro Leu Ile Tyr Ser Leu Met Asn Lys Met Phe Asn Phe Leu Xaa  
290 295 300  
Glu Lys Asn Pro Ser Arg Lys Lys Phe Xaa Leu Glu Ile Val Ser Phe  
305 310 315 320  
Cys Ala Cys Ile Phe Arg Thr Gly Ser Phe Cys  
325 330

<210> 1757  
<211> 332

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g675 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(332)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1757

```

Met Ala Pro Gly Asn Gly Ser Leu Met Asn Glu Phe Ile Leu Val Gly
 1          5          10          15
Leu Thr Asp Xaa Pro Asp Leu Xaa Leu Pro Leu Phe Phe Met Phe Leu
 20          25          30
Val Met Tyr Val Val Thr Val Ile Arg Asn Phe Val Leu Val Ile Leu
 35          40          45
Thr Met Arg Asn Ser Arg Leu His Thr Pro Lys Tyr Phe Phe Leu Ser
 50          55          60
Lys Leu Phe Phe Thr Asp Leu Cys Tyr Ser Ser Val Phe Ile Leu Gln
 65          70          75          80
Leu Pro Arg Lys Cys Ile Ser Glu Glu Asn Val Ile Ser Tyr Met Val
 85          90          95
Cys Met Ile Xaa Leu Phe Phe Phe Phe Phe Phe Phe Phe Xaa
 100          105          110
Phe Ile Ser Glu Cys Tyr Met Leu Thr Ser Met Ala Tyr Asp Cys Cys
 115          120          125
Val Ala Ile Cys Tyr Pro Leu Leu Tyr His Ile Ala Met Ser Pro Lys
 130          135          140
Val Cys Phe Ser Leu Met Leu Gly Ser Tyr Phe Leu Ser Phe Ser Gly
 145          150          155          160
Ala Met Ala His Thr Gly Cys Met Leu Arg Leu Thr Cys Asp Ala Asn
 165          170          175
Thr Ile Asn His Tyr Phe Arg Asp Ile Leu Pro Val Phe Gln Leu Ser
 180          185          190
Cys Thr Ser Thr Tyr Ile Asn Glu Leu Val Val Phe Ile Val Ala Gly
 195          200          205
Ile Asn Thr Ile Val Pro Thr Val Thr Val Phe Ile Ser Tyr Gly Asp
 210          215          220
Ile Leu Ser Arg Ile Leu His Ile Ser Ser Asn Glu Gly Arg Ser Lys
 225          230          235          240
Ala Phe Ser Thr Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe
 245          250          255
Gly Leu Ser Ala Phe Met Tyr Leu Lys Pro Ser Ser Ala Gly Ser Met
 260          265          270
Asp Glu Gly Lys Phe Ser Ser Val Phe Tyr Met Asn Gly Leu Pro Met
 275          280          285
Met Ser Ser Leu Ile Tyr Ser Leu Arg Arg Lys Asp Val Lys Phe Ala
 290          295          300
Met Gly Lys Ser Leu Ser Arg Arg Met Phe Leu Pro Xaa Thr Thr Phe
 305          310          315          320
Leu Cys Val Cys Ser Tyr Arg Met Gly Ile Leu Cys
 325          330

```

&lt;210&gt; 1758

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g676 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1758

```

Met Asp Ser Leu Asn Gln Thr Arg Val Thr Glu Phe Val Phe Leu Gly
 1          5          10          15
Leu Thr Asp Asn Arg Val Leu Glu Met Leu Phe Phe Met Ala Phe Ser
          20          25          30
Ala Ile Tyr Met Leu Thr Leu Ser Gly Asn Ile Leu Ile Ile Ala
          35          40          45
Thr Val Phe Thr Pro Ser Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ile Asp Ile Cys His Ser Ser Val Thr Val Pro Lys
65          70          75          80
Met Leu Glu Gly Leu Leu Leu Glu Arg Lys Thr Ile Ser Phe Asp Asn
          85          90          95
Cys Ile Thr Gln Leu Phe Phe Leu His Leu Phe Ala Cys Ala Glu Ile
          100          105          110
Phe Leu Leu Ile Ile Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys Thr
          115          120          125
Pro Leu His Tyr Pro Asn Val Met Asn Met Arg Val Cys Ile Gln Leu
          130          135          140
Val Phe Ala Leu Trp Leu Gly Gly Thr Val His Ser Leu Gly Gln Thr
145          150          155          160
Phe Leu Thr Ile Arg Leu Pro Tyr Cys Gly Pro Asn Ile Ile Asp Ser
          165          170          175
Tyr Phe Cys Asp Val Pro Leu Val Ile Lys Leu Ala Cys Thr Asp Thr
          180          185          190
Tyr Leu Thr Gly Ile Leu Ile Val Thr Asn Ser Gly Thr Ile Ser Leu
          195          200          205
Ser Cys Phe Leu Ala Val Val Thr Ser Tyr Met Val Ile Leu Val Ser
          210          215          220
Leu Arg Lys His Ser Ala Glu Gly Arg Gln Lys Ala Leu Ser Thr Cys
225          230          235          240
Ser Ala His Phe Met Val Val Ala Leu Phe Phe Gly Pro Cys Ile Phe
          245          250          255
Ile Tyr Thr Arg Pro Asp Thr Ser Phe Ser Ile Asp Lys Val Val Ser
          260          265          270
Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Thr
          275          280          285
Leu Arg Asn Glu Glu Val Lys Ser Ala Met Lys Gln Leu Arg Gln Arg
          290          295          300
Gln Val Phe Phe Thr Lys Ser Tyr Thr
305          310

```

&lt;210&gt; 1759

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g677 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(331)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1759

```

Met Ala Pro Gly Asn Ile Ser Thr Val Ala Glu Leu Ile Leu Val Gly
 1          5          10          15
Leu Lys Asp Gln Thr Asp Leu Gln Pro Pro Leu Phe Phe Leu Phe Leu
          20          25          30
Val Met Gly Val Val Ala Gly Xaa Gly Asn Leu Gly Leu Val Thr Leu

```

```

      35      40      45
Ile Val Phe Ser Ser His Phe His Ala Pro Met Tyr Phe Phe Leu Phe
  50      55      60
Ser Leu Ala Phe Ile Asp His Phe Tyr Ser Ser Val Phe Ile Pro Lys
  65      70      75      80
Met Leu Met Asn Phe Ile Thr Glu Lys Asn Ile Ile Ser Tyr Ala Gly
      85      90      95
Cys Met Ser Ala Phe Phe Ser Phe Phe Phe Cys Phe Phe Val Ile
      100      105      110
Ser Glu Cys Tyr Val Leu Thr Ser Met Val Ser Asp His Tyr Val Ala
      115      120      125
Met Ala Ile Cys Asn Pro Leu Leu Tyr Asn Ile Ala Met Ser Pro Lys
      130      135      140
Val Cys Ser Ser His Met Leu Gly Ser Tyr Phe Trp Pro Phe Ser Gly
      145      150      155      160
Ala Met Ala His Thr Arg Cys Met Leu Lys Leu Thr Ser Cys Glu Ala
      165      170      175
Asn Thr Ile Asn His Tyr Phe Cys Asp Thr Leu His Leu Leu Gln Leu
      180      185      190
Ser Cys Thr Ser Thr Tyr Val Ser Glu Leu Met Val Phe Ile Ala Ala
      195      200      205
Gly Ile Ile Phe Thr Val Pro Ser Ile Thr Ile Phe Ile Ser Tyr Phe
      210      215      220
Phe Thr Ser Pro Leu Ser Tyr His Phe Thr Glu Gly Trp Ser Lys Phe
      225      230      235      240
Phe Ser Thr Cys Ser Phe His Lys Ile Ala Ile Ser Leu Phe Phe Gly
      245      250      255
Leu Gly Ala Ser Leu Cys Leu Lys Leu Ser Ser Thr Gly Thr Ile Asn
      260      265      270
Glu Gly Lys Ile Ser Ser Val Phe His Ile Asp Val Val Pro Met Ile
      275      280      285
Asn Ser Ser Ile Tyr Ser Leu Arg Asn Asn Asp Val Lys Leu Ala Trp
      290      295      300
Arg Lys Ile Leu Ser Trp Arg Lys Phe Pro Phe Glu Thr Ile Ser Leu
      305      310      315      320
His Ala Tyr Ser Tyr Arg Thr Arg Arg Phe Cys
      325      330

```

&lt;210&gt; 1760

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g678 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(322)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1760

```

Met Ser Val Val Glu Ala Asn Asn Ile Ser Gly Pro Val Ser Glu Phe
  1      5      10      15
Ile Leu Leu Gly Phe Pro Cys Arg Cys Arg Glu Thr Lys Ile Leu Leu
      20      25      30
Phe Val Val Phe Ser Leu Ile Tyr Leu Leu Thr Leu Met Gly Asn Thr
      35      40      45
Ser Ile Ile Cys Ala Val Trp Ser Ser Gln Lys Leu His Thr Pro Met
      50      55      60
Tyr Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Cys Ile Ser
      65      70      75      80

```

```

Ser Asp Val Pro Asn Met Leu Ala Asn Leu Ile Ser His Ile Lys Ser
      85      90
Ile Ser Tyr Ala Gly Cys Leu Leu Gln Phe Phe Tyr Phe Ser Met Cys
      100      105      110
Ala Ala Glu Gly Tyr Phe Leu Ser Val Met Ser Phe Asp Arg Phe Leu
      115      120      125
Thr Ile Cys Arg Pro Leu His Tyr Pro Thr Val Met Thr His His Leu
      130      135      140
Cys Val Xaa Leu Val Ala Phe Cys Arg Ala Gly Gly Phe Leu Ser Ile
      145      150      155      160
Leu Met Pro Ala Val Leu Met Ser Arg Val Pro Phe Cys Gly Pro Asn
      165      170      175
Ile Thr Asp His Phe Phe Cys Asn Leu Gly Pro Leu Leu Ala Leu Ser
      180      185      190
Cys Ala Pro Val Pro Lys Thr Thr Leu Thr Cys Ala Thr Val Ser Ser
      195      200      205
Leu Ile Ile Phe Ile Thr Phe Leu Tyr Ile Leu Gly Ser His Ile Leu
      210      215      220
Val Leu Arg Ala Val Leu Trp Val Pro Ala Gly Ser Gly Arg Asn Lys
      225      230      235      240
Ala Phe Ser Thr Cys Ala Ser His Phe Leu Val Val Ser Phe Phe Tyr
      245      250      255
Gly Ser Val Met Val Met Tyr Val Ser Pro Gly Ser Arg Ser Arg Pro
      260      265      270
Gly Thr Gln Lys Phe Val Thr Leu Phe Tyr Cys Thr Ala Thr Pro Phe
      275      280      285
Phe Asn Pro Leu Thr Tyr Ser Leu Trp Asn Lys Asp Met Thr Asp Ala
      290      295      300
Leu Lys Lys Val Leu Gly Val Pro Ser Lys Glu Ile Tyr Trp Asn Thr
      305      310      315      320
Leu Lys

```

&lt;210&gt; 1761

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g679 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(335)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1761

```

Met Glu Glu Ala Ile Leu Leu Asn Gln Thr Ser Leu Val Thr Tyr Phe
  1      5      10      15
Arg Leu Arg Gly Leu Ser Val Asn His Lys Ala Arg Ile Ala Met Phe
      20      25      30
Ser Met Phe Leu Ile Phe Tyr Val Leu Thr Leu Ile Gly Asn Val Leu
      35      40      45
Ile Val Ile Thr Ile Ile Tyr Asp His Arg Leu His Thr Pro Met Tyr
      50      55      60
Phe Phe Leu Ser Asn Leu Ser Phe Ile Asp Val Cys His Ser Thr Val
      65      70      75      80
Thr Val Pro Lys Met Leu Arg Asp Val Trp Ser Glu Glu Lys Leu Ile
      85      90      95
Ser Phe Asp Ala Cys Val Thr Gln Met Phe Phe Leu His Leu Phe Ala
      100      105      110
Cys Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val

```

```

      115              120              125
Ala Ile Cys Lys Pro Leu Gln Tyr Met Ile Val Met Asn Trp Lys Val
  130              135              140
Cys Val Leu Leu Ala Val Ala Leu Trp Thr Gly Gly Thr Ile His Ser
  145              150              155              160
Ile Ala Leu Thr Ser Leu Thr Ile Lys Leu Pro Tyr Cys Gly Pro Asp
      165              170              175
Glu Ile Asp Asn Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala
      180              185              190
Cys Ile Asp Thr Pro Tyr Val Leu Glu Ile Leu Ile Val Ser Asn Ser
      195              200              205
Gly Leu Ile Ser Val Val Cys Phe Val Val Leu Val Val Ser Tyr Ala
      210              215              220
Val Ile Leu Val Ser Leu Arg Gln Gln Ile Ser Lys Gly Lys Trp Lys
  225              230              235              240
Ala Leu Ser Thr Cys Ala Ala His Leu Thr Val Val Thr Leu Phe Leu
      245              250              255
Gly His Cys Ile Phe Ile Tyr Ser Arg Pro Ser Thr Ser Leu Pro Glu
      260              265              270
Asp Lys Ala Val Ser Val Phe Phe Thr Ala Val Thr Pro Leu Leu Asn
      275              280              285
Pro Ile Ile Tyr Thr Leu Arg Asn Glu Glu Met Lys Ser Ala Leu Asn
      290              295              300
Lys Leu Val Gly Arg Lys Glu Arg Lys Glu Glu Lys Xaa Lys Cys Pro
  305              310              315              320
Thr Ser Leu Gly Tyr Val Val Leu Gln Ile Lys Glu Ala Pro Cys
      325              330              335

```

&lt;210&gt; 1762

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g680 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(161)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1762

```

Thr Gly Thr Gly Xaa Trp Leu Cys His Ala Met Ile Leu Thr Pro Leu
  1              5              10              15
Thr Phe Gln Leu Pro Tyr Cys Gly Leu Thr Arg Trp Asp Tyr Tyr Phe
      20              25              30
Cys Asp Ile Pro Ala Val Leu Pro Leu Ala Cys Lys Asp Thr Ser Leu
      35              40              45
Ala Gln Arg Val Gly Phe Thr Asn Val Gly Leu Leu Ser Leu Ile Cys
      50              55              60
Phe Phe Leu Ile Leu Val Ser Tyr Thr Cys Ile Gly Ile Ser Ile Ser
  65              70              75              80
Lys Ile Arg Ser Ala Glu Gly Arg Gln Arg Ala Phe Ser Thr Cys Ser
      85              90              95
Ala His Leu Thr Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Val Ile
      100              105              110
Tyr Leu Gln Pro Asn Pro Ser Ala Leu Leu Gly Ser Ile Ile Gln Ile
      115              120              125
Leu Asn Asn Leu Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
      130              135              140
Arg Asn Lys Asp Val Lys Ser Asp Gln Pro Xaa Gly Met Tyr Phe Pro
  145              150              155              160

```

Arg

<210> 1763  
 <211> 134  
 <212> PRT  
 <213> Unknown (H38g681 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(134)  
 <223> Xaa = Any Amino Acid

<400> 1763  
 Leu Leu Phe Leu Met Phe Phe Ile Thr Ser Leu Gly His Lys Phe His  
 1 5 10 15  
 Leu Ile Ser Phe Pro Phe Ser Gln Gln Thr Thr Xaa Gln Lys Tyr Phe  
 20 25 30  
 Ile Ile Phe Glu Val Xaa Leu Cys Xaa Xaa His Thr Leu Thr Ala Leu  
 35 40 45  
 Ile Tyr Cys Xaa Met Ser Leu Phe Xaa Gly Ile Asp Leu Phe Val Gly  
 50 55 60  
 Tyr Asn Pro Cys Ser Pro Arg Val Leu Phe Leu Phe Leu Gly Arg Gly  
 65 70 75 80  
 Pro Ser Gly Phe Ser Leu Glu Ser Leu Ser Phe Tyr Arg Thr Ser Phe  
 85 90 95  
 Thr Trp Gln His Leu His Leu Lys Phe Tyr Cys Pro Ser Xaa Gly Xaa  
 100 105 110  
 Leu Leu Lys Ser Phe Leu Ser Ala Ile Trp Leu Leu Phe Ser Thr Tyr  
 115 120 125  
 Phe Leu Arg Val Leu Ser  
 130

<210> 1764  
 <211> 311  
 <212> PRT  
 <213> Unknown (H38g682 protein)

<220>  
 <223> Synthetic construct

<400> 1764  
 Met Ala Thr Ser Asn His Ser Ser Gly Ala Glu Phe Ile Leu Ala Gly  
 1 5 10 15  
 Leu Thr Gln Arg Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Phe Leu  
 35 40 45  
 Ile Ala Leu Ser Ser Gln Leu Tyr Pro Pro Val Tyr Tyr Phe Leu Ser  
 50 55 60  
 His Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Val Pro Glu Glu Asn Ile Ile Ser Phe Leu Glu  
 85 90 95  
 Cys Ile Thr Gln Leu Tyr Phe Phe Leu Ile Phe Val Ile Ala Glu Gly  
 100 105 110  
 Tyr Leu Leu Thr Ala Met Glu Tyr Asp Arg Tyr Val Ala Ile Cys Arg  
 115 120 125  
 Pro Leu Leu Tyr Asn Ile Val Met Ser His Arg Val Cys Ser Ile Met

```

      130              135              140
Met Ala Val Val Tyr Ser Leu Gly Phe Leu Trp Ala Thr Val His Thr
145              150              155              160
Thr Arg Met Ser Val Leu Ser Phe Cys Arg Ser His Thr Val Ser His
      165              170              175
Tyr Phe Cys Asp Ile Leu Pro Leu Leu Thr Leu Ser Cys Ser Ser Thr
      180              185              190
His Ile Asn Glu Ile Leu Leu Phe Ile Ile Gly Gly Val Asn Thr Leu
      195              200              205
Ala Thr Thr Leu Ala Val Leu Ile Ser Tyr Ala Phe Ile Phe Ser Ser
      210              215              220
Ile Leu Gly Ile His Ser Thr Glu Gly Gln Ser Lys Ala Phe Gly Thr
225              230              235              240
Cys Ser Ser His Leu Leu Ala Val Gly Ile Phe Phe Gly Ser Ile Thr
      245              250              255
Phe Met Tyr Phe Lys Pro Pro Ser Ser Thr Thr Met Glu Lys Glu Lys
      260              265              270
Val Ser Ser Val Phe Tyr Ile Thr Ile Ile Pro Met Leu Asn Pro Leu
      275              280              285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Met
      290              295              300
Thr Arg Gly Arg Gln Ser Ser
305              310

```

&lt;210&gt; 1765

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g683 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1765

```

Met Val Ile Leu Ser Trp Glu Asn Gln Thr Met Arg Val Glu Phe Val
 1              5              10              15
Leu Gln Gly Phe Ser Ser Ile Arg Gln Leu Asn Ile Phe Leu Phe Met
      20              25              30
Ile Ile Leu Val Phe Tyr Ile Leu Thr Val Ser Gly Asn Ile Leu Ile
      35              40              45
Val Leu Leu Val Leu Val Arg His His Leu His Thr Pro Met Tyr Phe
      50              55              60
Leu Leu Val Asn Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Asn Ile
      65              70              75              80
Ile Pro Lys Met Leu Leu Ile Ile Ile Ala Glu Xaa Lys Thr Ile Ser
      85              90              95
Val Ala Gly Trp Leu Ala Gln Phe Tyr Phe Phe Gly Ser Leu Ala Ala
      100              105              110
Thr Glu Cys Leu Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala
      115              120              125
Ile Cys Gln Pro Leu Cys Tyr Arg Val Leu Met Thr Gly Pro Leu Cys
      130              135              140
Ile Arg Leu Ala Ala Gly Ser Trp Phe Cys Cys Phe Leu Leu Thr Ala
145              150              155              160
Ile Thr Met Val Leu Leu Cys Arg Leu Thr Phe Cys Gly Pro Tyr Glu
      165              170              175
Thr Asp His Phe Cys Asp Phe Thr Pro Leu Val His Leu Ser Cys
      180              185              190

```



Met Asp Thr Ser Val Thr Glu Thr Ile Ala Phe Ala Thr Ser Ser Ala  
 195 200 205  
 Val Thr Leu Ile Pro Phe Leu Leu Ile Val Ala Ser Tyr Ser Cys Val  
 210 215 220  
 Leu Ser Ala Ile Leu Arg Ile Pro Ser Cys Thr Gly Gln Lys Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Val Phe Tyr Gly  
 245 250 255  
 Thr Leu Ile Ala Thr Tyr Leu Val Pro Ser Ala Asn Ser Ser Gln Leu  
 260 265 270  
 Leu Cys Lys Gly Ser Ser Leu Leu Tyr Ile Ile Leu Thr Pro Met Phe  
 275 280 285  
 Asn Pro Ile Ile Tyr Ser Leu Arg Asn Arg Asp Ile His Glu Ala Leu  
 290 295 300  
 Lys Lys Cys Leu Arg Lys Lys Ser Gly Val Cys Leu  
 305 310 315

&lt;210&gt; 1766

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g684 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1766

Pro Val Arg Thr Leu Glu Thr Thr Asn Ile Thr Gly Phe Val Asn Glu  
 1 5 10 15  
 Phe Ile Leu Leu Gly Phe Pro Cys Arg Trp Glu Ile Gln Ile Leu Leu  
 20 25 30  
 Phe Val Val Phe Ser Leu Ile Tyr Leu Leu Thr Leu Leu Gly Asn Thr  
 35 40 45  
 Ser Ile Ile Cys Ala Val Trp Ser Ser Gln Lys Leu His Thr Pro Met  
 50 55 60  
 Tyr Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Cys Cys Val Ser  
 65 70 75 80  
 Ser Asp Val Pro Ile Met Ala Ala Asn Leu Ile Ser Gln Thr Gln Ser  
 85 90 95  
 Ile Ser Cys Ala Gly Cys Leu Leu Arg Phe Tyr Phe Phe Ser Met Cys  
 100 105 110  
 Ala Ala Glu Cys Leu Phe Leu Ser Val Met Ser Phe Asp Arg Phe Pro  
 115 120 125  
 Ala Ile Cys Arg Pro Leu His Tyr Pro Thr Leu Met Thr His His Val  
 130 135 140  
 Cys Ala His Phe Val Ile Phe Cys Trp Val Gly Gly Cys Leu Trp Leu  
 145 150 155 160  
 Leu Thr Pro Leu Thr Leu Ile Ser Gln Val Leu Phe Cys Gly Pro Asn  
 165 170 175  
 Thr Ile Asp His Phe Phe Cys Asp Leu Ala Pro Leu Leu Ala Leu Ser  
 180 185 190  
 Cys Ala Pro Ile Pro Gly Ile Thr Leu Thr Cys Gly Ile Ile Ser Ala  
 195 200 205  
 Leu Ile Ile Phe Leu Thr Phe Leu Tyr Ile Leu Gly Thr Tyr Phe Cys  
 210 215 220  
 Val Leu Ser Thr Val Leu Gln Val Pro Ser Gly Leu Gly Arg His Lys  
 225 230 235 240  
 Ala Phe Ser Thr Cys Gly Cys His Leu Ala Val Val Ser Leu Phe Tyr  
 245 250 255  
 Gly Ser Leu Met Val Met Tyr Val Ser Pro Gly Ser Gly Asp Tyr His  
 260 265 270  
 Gly Ile Lys Lys Phe Ala Thr Leu Phe Tyr Thr Leu Ser Thr Pro Phe

275		280		285
Phe Asn Pro Leu Ile Tyr Ser	Phe Arg Asn Lys Asp Met Lys Glu Ala			
290	295	300		
Leu Lys Lys Phe Leu Arg Asn Arg His Thr Val				
305	310	315		

&lt;210&gt; 1767

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g685 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1767

Leu Ile Ala Thr Gly Asn Trp Thr Arg Ile Ser Lys Phe Ile Leu Met				
1	5	10	15	
Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu Phe Leu Thr				
	20	25	30	
Phe Leu Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Cys Leu Ile Ile				
	35	40	45	
Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met Tyr Phe Phe				
	50	55	60	
Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Ala				
65	70	75	80	
Pro Asn Met Leu Trp Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe				
	85	90	95	
Leu Gly Cys Ala Thr Xaa Met Tyr Phe Val Phe Phe Phe Gly Val Ala				
	100	105	110	
Glu Cys Leu Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile				
	115	120	125	
Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg Thr Leu Ala				
	130	135	140	
Lys Leu Ala Ala Thr Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val				
145	150	155	160	
Gln Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val				
	165	170	175	
Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Arg Leu Val Cys Ala				
	180	185	190	
Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val				
	195	200	205	
Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr His Ile Ala				
	210	215	220	
Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys Asn Lys Ala Phe				
225	230	235	240	
Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser				
	245	250	255	
Leu Ser Leu Thr Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly				
	260	265	270	
Lys Lys Leu Leu Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn				
	275	280	285	
Pro Ile Ile Tyr Ser Leu Arg Asn Asn Glu Val Lys Asn Ala Leu Ser				
	290	295	300	
Arg Thr Val Ser Lys Ala Leu Gly Pro Gln Lys Leu				
305	310	315		

&lt;210&gt; 1768

<211> 324  
 <212> PRT  
 <213> Unknown (H38g686 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(324)  
 <223> Xaa = Any Amino Acid

<400> 1768  
 Met Ala Val Glu Asn Asp Ser Ser Val Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr Asp Gln Pro Glu Ile Xaa Leu Pro Leu Phe Phe Leu Phe Leu  
 20 25 30  
 Val Asn Tyr Met Thr Thr Met Val Gly Asn Leu Ser Leu Ile Asn Leu  
 35 40 45  
 Ile Cys Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Phe Val Phe Thr Pro Lys  
 65 70 75 80  
 Met Leu Met Ser Phe Ile Ser Glu Arg Asn Ile Ile Ser Phe Pro Gly  
 85 90 95  
 Cys Val Thr Gln Leu Phe Phe Phe Cys Phe Phe Val His Ser Glu Cys  
 100 105 110  
 Tyr Val Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu Leu Tyr Met Val Thr Thr Ser Pro Gln Ile Cys Ser Leu Leu  
 130 135 140  
 Met Leu Gly Ser Tyr Val Met Gly Phe Ala Gly Ala Met Val His Thr  
 145 150 155 160  
 Glu Cys Met Met Lys Leu Ile Phe Cys Asp Ser Asn Val Ile Asn His  
 165 170 175  
 Tyr Met Cys Asp Ile Phe Pro Leu Leu Gln Leu Ser Cys Ser Ser Thr  
 180 185 190  
 Xaa Ala Asn Glu Leu Val Met Ser Val Ile Val Gly Thr Val Val Ile  
 195 200 205  
 Val Ser Ser Leu Ile Ile Leu Ile Ser Tyr Ala Leu Ile Leu Phe Asn  
 210 215 220  
 Ile Leu His Met Ser Ser Ala Glu Gly Trp Phe Lys Ala Ile Gly Thr  
 225 230 235 240  
 Cys Gly Ser His Ile Ile Thr Val Gly Leu Phe Tyr Glu Phe Gly Leu  
 245 250 255  
 Ile Thr His Val Lys Leu Ser Ser Asp Trp Tyr Met Gly Gln Gly Lys  
 260 265 270  
 Phe Leu Ser Val Phe Tyr Thr Asn Glu Val Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Lys Glu Thr  
 290 295 300  
 Leu Asn Lys Ile Thr Asn Xaa Val Glu Pro Met Val Leu Pro Xaa Pro  
 305 310 315 320  
 Leu Ser Asn Cys

<210> 1769  
 <211> 331  
 <212> PRT  
 <213> Unknown (H38g687 protein)  
 <220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(331)

<223> Xaa = Any Amino Acid

<400> 1769

```

Met Arg Xaa Ile Asn Gln Thr Gln Val Ile Glu Phe Leu Leu Leu Gly
 1           5           10           15
Leu Ser Asp Gly Pro His Thr Glu Gln Leu Leu Phe Ile Val Leu Leu
 20           25           30
Gly Val Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Leu Ile Ser Leu
 35           40           45
Val His Val Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys
 50           55           60
Asn Leu Ser Leu Ala Asp Leu Tyr Phe Ser Thr Asn Ile Leu Pro Gln
 65           70           75           80
Ala Leu Val His Leu Leu Ser Ile Asn Asn Leu Ile Ala Phe Thr Leu
 85           90           95
Ser Leu Thr Gln Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr Gln Cys
100          105          110
Ala Leu Ile Ala Val Met Ser Tyr Asn Pro Tyr Val Ala Ile Cys Asn
115          120          125
Pro Leu His Tyr Pro Asn Ile Met Thr Trp Lys Val Cys Val Gln Leu
130          135          140
Ala Thr Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr
145          150          155          160
Thr Phe Thr Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His
165          170          175
Phe Phe Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr
180          185          190
His Ala Ser Glu Met Ala Ile Tyr Leu Thr Gly Val Val Ile Leu Leu
195          200          205
Ile Pro Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr
210          215          220
Val Val Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Met Val Val Ile Leu Leu Asn Gly Ser Ala Ile
245          250          255
Leu Thr Cys Met Thr Pro Lys Ser Ser Lys Gln Gln Xaa Lys Ser Val
260          265          270
Ser Val Phe Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr
275          280          285
Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val Ala Thr
290          295          300
Arg Asn Phe Pro Xaa Arg Leu Gly Ile His Thr Asp Ser Glu Leu Arg
305          310          315          320
Glu Pro Phe Gly Phe Leu Leu Pro Lys Thr Cys
325          330

```

<210> 1770

<211> 183

<212> PRT

<213> Unknown (H38g688 protein)

<220>

<223> Synthetic construct

<400> 1770

```

Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser
 1           5           10           15

```

Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys  
 20 25 30  
 Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr  
 35 40 45  
 Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu  
 50 55 60  
 Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met  
 65 70 75 80  
 Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met  
 85 90 95  
 Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile  
 100 105 110  
 Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile  
 130 135 140  
 Val Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu  
 145 150 155 160  
 Thr Ile Ser Val Pro Phe Cys Gly Pro Asn Asp Ile Asp His Tyr Ser  
 165 170 175  
 Arg Asp Val Tyr Pro Leu Leu  
 180

&lt;210&gt; 1771

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g689 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(224)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1771

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ser Val  
 1 5 10 15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
 20 25 30  
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Arg His Ala  
 35 40 45  
 Pro Glu Val Met Ala Tyr Asp Leu Phe Val Ala Ile Cys His Leu Leu  
 50 55 60  
 Tyr Arg Ser Ala Ile Leu Asn Pro Phe Val Arg Gly Phe Leu Asp Leu  
 65 70 75 80  
 Leu Ser Leu Leu Leu Val Phe Phe Phe Phe Leu Ile Ser Leu Leu Asp  
 85 90 95  
 Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp  
 100 105 110  
 Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu  
 115 120 125  
 Ala Cys Cys Asp Thr Phe Thr Arg Asn Asn Asn Met Tyr Phe Pro Ala  
 130 135 140  
 Ala Val Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Cys  
 145 150 155 160  
 Lys Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr  
 165 170 175  
 Lys Pro Ser Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe  
 180 185 190  
 Tyr Gly Ala Gly Val Gly Gly Tyr Leu Gly Ser Asp Val Ser Ser Phe

	195		200		205										
Pro	Arg	Lys	Gly	Ala	Val	Ala	Ser	Val	Thr	Tyr	Tyr	Thr	Val	Val	Thr
	210					215					220				

<210> 1772  
 <211> 215  
 <212> PRT  
 <213> Unknown (H38g690 protein)

<220>  
 <223> Synthetic construct

<400> 1772  
 Met Asp Val Arg Leu Ile Cys Thr Thr Val Pro Lys Met Ala Phe Asn  
 1 5 10 15  
 Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly Cys Ala Thr Gln  
 20 25 30  
 Ile Phe Phe Cys Val Ser Leu Leu Gly Ser Glu Cys Phe Leu Leu Ala  
 35 40 45  
 Val Met Ser Tyr Asp Cys Tyr Ile Ala Ile Cys His Pro Leu Arg Tyr  
 50 55 60  
 Thr Asn Leu Met Arg Pro Lys Ile Cys Arg Leu Met Thr Ala Phe Ser  
 65 70 75 80  
 Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Tyr Ala Val Ala Thr Phe  
 85 90 95  
 Ser Phe Ser Tyr Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys Glu  
 100 105 110  
 Leu Pro Ser Leu Leu Ile Leu Ser Cys Asn Asp Thr Ser Ile Phe Glu  
 115 120 125  
 Lys Val Ile Phe Ile Cys Ser Ile Val Met Leu Val Phe Pro Val Ala  
 130 135 140  
 Ile Ile Ile Ala Ser Tyr Ala Gly Val Ile Leu Ala Val Ile His Met  
 145 150 155 160  
 Gly Ser Gly Glu Gly Arg Arg Lys Ala Phe Thr Thr Cys Ser Ser His  
 165 170 175  
 Leu Met Val Val Gly Met Phe Tyr Gly Ala Gly Leu Phe Met Tyr Ile  
 180 185 190  
 Gln Pro Thr Ser Asp Arg Ser Pro Thr Gln Asp Lys Leu Val Ser Val  
 195 200 205  
 Phe Tyr Thr Ile Leu Thr Pro  
 210 215

<210> 1773  
 <211> 127  
 <212> PRT  
 <213> Unknown (H38g691 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(127)  
 <223> Xaa = Any Amino Acid

<400> 1773  
 Asn Leu Leu Pro Val Trp Thr Pro Gly Ser Arg Val Pro Ser Xaa Ser  
 1 5 10 15  
 Gln Ile Ser Val Ser Glu Lys Gln Gly Met Ser Phe Pro Lys Lys Leu  
 20 25 30  
 Phe Gln Asn His Lys Leu Phe Leu Leu Phe Ala Gly Met Asn Val Phe  
 35 40 45

```

Leu Gln Thr Val Met Ala Tyr Asp His Phe Val Ala Ile Cys His Pro
 50          55          60
Leu His Tyr Arg Val Ile Met Asn Pro Gly Ile Phe Gly Leu Trp Val
 65          70          75
Leu Val Ser Trp Ser Met Ser Ala Leu Asn Ser Ser Leu Gln Ser Arg
          85          90          95
Met Val Leu Gln Leu Ser Phe Cys Thr Asn Leu Glu Ile Pro His Ile
          100          105          110
Phe Phe Cys Glu Leu Asn Gln Leu Ile Leu Leu Ala Cys Ser Asn
          115          120          125

```

<210> 1774  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g692 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(216)  
 <223> Xaa = Any Amino Acid

```

<400> 1774
Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu
 1          5          10          15
Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys Ile Met
          20          25          30
Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu
          35          40          45
Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Leu
          50          55          60
Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val Ala Thr
          65          70          75          80
Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa Phe Leu
          85          90          95
Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe Val Cys
          100          105          110
Glu His Ala Ala Val Val Ala Val Ser Trp Ser Asp Pro Cys Val Ser
          115          120          125
Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Gly Leu
          130          135          140
Val Ile Ile Leu Thr Pro Tyr Ala Phe Ile Phe Ile Thr Val Met Lys
          145          150          155          160
Thr Pro Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser
          165          170          175
His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr
          180          185          190
Cys Val Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser
          195          200          205
Val Leu Tyr Thr Val Val Ile Pro
          210          215

```

<210> 1775  
 <211> 215  
 <212> PRT  
 <213> Unknown (H38g693 protein)

<220>  
 <223> Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(215)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1775

```

Leu Pro Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Met Gln Ser His Ser Arg Ile Ile Ser His Ala Gly Cys Leu Thr
          20           25           30
Gln Ile Pro Phe Phe Val Leu Phe Val Cys Ile Asp Asp Met Leu Leu
          35           40           45
Thr Val Met Ala Tyr Asp Xaa Phe Val Ala Ile Cys His Pro Leu His
          50           55           60
Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe Leu Val Leu Met
          65           70           75           80
Ser Ile Phe Leu Ser Leu Leu Asp Ser Xaa Leu His Asn Ser Val Leu
          85           90           95
Leu Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Ser Asn Phe Phe Cys
          100          105          110
Asp Xaa Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Phe Ile Ser Asn
          115          120          125
Ile Phe Ile Arg Leu Asp Ser Thr Ile Phe Gly Phe Leu Pro Ile Ser
          130          135          140
Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg Ile
          145          150          155          160
Pro Leu Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His
          165          170          175
Leu Ala Ile Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly Met Tyr Leu
          180          185          190
Thr Ser Ala Val Ser Pro Ala Pro Arg Asn Gly Val Val Ala Ser Val
          195          200          205
Leu Tyr Ala Met Val Thr Pro
          210          215

```

&lt;210&gt; 1776

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g694 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(217)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1776

```

Leu Pro Asp Ile Gly Phe Thr Pro Thr Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Tyr Ala Gly Cys Leu Thr Val
          20           25           30
Met Ser Leu Phe Ala Ile Phe Gly Met Glu Glu Thr Leu Leu Leu
          35           40           45
Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile Cys His Pro Leu Tyr
          50           55           60
His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Leu Leu Leu
          65           70           75           80
Ser Phe Phe Phe Leu Gly Leu Leu Asp Ala Gln Leu His Asn Met Ile
          85           90           95
Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe
          100          105          110

```



Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr  
           115                          120          125  
 Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro  
       130                          135          140  
 Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Glu Ile Val Ser Ser Ile Leu  
   145                          150          155          160  
 Arg Val Ser Ser Xaa Gly Gly Lys Tyr Lys Ala Phe Ala Thr Cys Gly  
                           165          170          175  
 Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val Gly Gly  
                           180          185          190  
 Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val Ala  
                           195          200          205  
 Ser Val Met Tyr Ala Val Val Thr Pro  
       210                          215

&lt;210&gt; 1777

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g695 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(230)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1777

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Ala Lys Met Ile Val  
   1                          5          10          15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
           20                          25          30  
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Ser Met Leu  
   35                          40          45  
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu  
   50                          55          60  
 Tyr Arg Ser Ala Ile Leu Ser Arg Asp Ser Val Pro Ser Xaa Ile Cys  
   65                          70          75          80  
 Cys Leu Cys Phe Val Leu Phe Cys Phe Val Leu Phe Cys Phe Val Phe  
                           85          90          95  
 Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met  
           100                          105          110  
 Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Leu Trp Glu Pro Ser  
           115                          120          125  
 Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn  
   130                          135          140  
 Met Tyr Phe Pro Ala Ala Val Phe Gly Phe Leu Pro Ile Ser Gly Pro  
   145                          150          155          160  
 Phe Leu Leu Gln Trp Ser Lys Ile Val Ser Ser Thr Leu Arg Val Ser  
                           165          170          175  
 Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu  
                           180          185          190  
 Ser Val Val Cys Xaa Phe Cys Gly Thr Gly Val Gly Gly Tyr Leu Gly  
                           195          200          205  
 Ser Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met  
   210                          215          220  
 Tyr Thr Val Val Thr Pro  
   225                          230

&lt;210&gt; 1778

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g696 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1778

```

Met Leu Ala Arg Asn Asn Ser Leu Val Thr Glu Phe Ile Leu Ala Gly
 1           5           10           15
Leu Thr Asp Arg Pro Glu Phe Arg Gln Pro Leu Phe Phe Leu Phe Leu
          20           25           30
Val Ile Tyr Ile Val Thr Met Val Gly Asn Leu Gly Leu Ile Thr Leu
          35           40           45
Phe Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Phe
          50           55           60
Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys
          65           70           75           80
Met Leu Met Asn Phe Val Ser Lys Lys Asn Ile Ile Ser Asn Val Gly
          85           90           95
Cys Met Thr Arg Leu Phe Phe Phe Leu Phe Phe Val Ile Ser Glu Cys
          100          105          110
Tyr Met Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
          115          120          125
Pro Leu Leu Tyr Lys Val Thr Met Ser His Gln Val Cys Ser Met Leu
          130          135          140
Thr Phe Ala Ala Tyr Ile Met Gly Leu Ala Gly Ala Thr Ala His Thr
          145          150          155          160
Gly Cys Met Leu Arg Leu Thr Phe Cys Ser Ala Asn Ile Ile Asn His
          165          170          175
Tyr Leu Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr
          180          185          190
Tyr Val Asn Glu Val Val Val Leu Ile Val Val Gly Thr Asn Ile Thr
          195          200          205
Val Pro Ser Cys Thr Ile Leu Ile Ser Tyr Val Phe Ile Val Thr Ser
          210          215          220
Ile Leu His Ile Lys Ser Thr Gln Gly Arg Ser Lys Ala Phe Ser Thr
          225          230          235          240
Cys Ser Ser His Val Ile Ala Leu Ser Leu Phe Phe Gly Ser Ala Ala
          245          250          255
Phe Met Tyr Ile Lys Tyr Ser Ser Gly Ser Met Glu Gln Gly Lys Val
          260          265          270
Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu Ile
          275          280          285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Lys Ala Leu
          290          295          300
Ile Lys Ile Gln Arg Arg Asn Ile Phe
305           310

```

&lt;210&gt; 1779

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g697 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1779

```

Met Thr Met Glu Asn Tyr Ser Met Ala Ala Gln Phe Val Leu Asp Gly
 1           5           10           15
Leu Thr Gln Gln Ala Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
          20           25           30

```

Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Gly Met Ile Leu Leu  
           35                          40                          45  
 Ile Ala Val Ser Pro Leu Leu His Thr Pro Met Tyr Tyr Phe Leu Ser  
       50                          55                          60  
 Ser Leu Ser Ser Phe Val Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys  
       65                          70                          75                          80  
 Met Leu Val Asn Phe Leu Gly Lys Lys Asn Thr Ile Leu Tyr Ser Glu  
                           85                          90                          95  
 Cys Met Val Gln Leu Phe Phe Phe Val Val Phe Val Val Ala Glu Gly  
                           100                          105                          110  
 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser  
                           115                          120                          125  
 Pro Leu Leu Tyr Asn Ala Ile Met Ser Ser Trp Val Cys Ser Leu Leu  
                           130                          135                          140  
 Val Leu Ala Ala Phe Phe Leu Gly Phe Leu Ser Ala Leu Thr His Thr  
       145                          150                          155                          160  
 Ser Ala Met Met Lys Leu Ser Phe Cys Lys Ser His Ile Ile Asn His  
                           165                          170                          175  
 Tyr Phe Cys Asp Val Leu Pro Leu Leu Asn Leu Ser Cys Ser Asn Thr  
                           180                          185                          190  
 His Leu Asn Glu Leu Leu Leu Phe Ile Ile Ala Gly Phe Asn Thr Leu  
                           195                          200                          205  
 Val Pro Thr Leu Ala Val Ala Val Ser Tyr Ala Phe Ile Leu Tyr Ser  
                           210                          215                          220  
 Ile Leu His Ile Arg Ser Ser Glu Gly Arg Ser Lys Ala Phe Gly Thr  
       225                          230                          235                          240  
 Cys Ser Ser His Leu Met Ala Val Val Ile Phe Phe Gly Ser Ile Thr  
                           245                          250                          255  
 Phe Met Tyr Phe Lys Pro Pro Ser Ser Asn Ser Leu Asp Gln Glu Lys  
                           260                          265                          270  
 Val Ser Ser Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Leu  
                           275                          280                          285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Arg Lys Val  
       290                          295                          300  
 Leu Val Gly Lys  
 305

&lt;210&gt; 1780

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g698 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1780

Met Ala Pro Gly Asn Gly Ser Phe Val Thr Glu Phe Ile Leu Ala Gly  
       1                          5                          10                          15  
 Leu Thr His Gln Pro Asp Leu Gln Ser Pro Leu Phe Phe Leu Phe Leu  
                           20                          25                          30  
 Val Ile Tyr Val Val Thr Leu Leu Gly Asn Leu Gly Leu Val Thr Leu  
                           35                          40                          45  
 Ile Gly Leu Asn Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Phe  
       50                          55                          60  
 Asn Leu Ser Phe Ile Asp Leu Cys Tyr Ser Ser Val Phe Thr Pro Lys  
       65                          70                          75                          80  
 Met Leu Met Asn Phe Ile Ser Glu Lys Asn Ile Ile Ser Phe Lys Gly

<400> 1781																
Met	Lys	Pro	Gly	Asn	Glu	Thr	Gln	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly	
1				5					10						15	
Leu	Ser	Glu	Glu	Pro	Glu	Leu	Gln	Pro	Phe	Leu	Phe	Gly	Leu	Phe	Leu	
		20						25					30			
Ser	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala	
	35						40					45				
Thr	Ile	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	
	50					55					60					
Asn	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Phe	Val	Ser	Thr	Thr	Val	Pro	Lys	
65					70					75					80	
Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Ser	Arg	Val	Ile	Thr	Tyr	Ala	Asp	
			85						90					95		
Cys	Ile	Thr	Gln	Met	Cys	Phe	Phe	Ile	Leu	Phe	Val	Val	Leu	Asp	Ser	
			100					105					110			
Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	
		115					120					125				
Pro	Leu	His	Tyr	Thr	Val	Ile	Met	Asn	Ser	Trp	Leu	Cys	Gly	Leu	Leu	
	130					135					140					
Val	Leu	Val	Ser	Trp	Ile	Val	Ser	Ile	Leu	Tyr	Ser	Leu	Leu	Gln	Ser	
145					150					155					160	

```

Ile Met Ala Leu Gln Leu Ser Phe Cys Thr Glu Leu Lys Ile Pro His
      165      170      175
Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr
      180      185      190
Phe Ile Asn Asp Met Met Met Asn Phe Thr Ser Val Leu Leu Gly Gly
      195      200      205
Gly Cys Leu Ala Gly Ile Leu Tyr Thr Tyr Phe Lys Ile Leu Cys Cys
      210      215      220
Ile Cys Ser Ile Ser Ser Ala Gln Gly Met Asn Lys Ala Leu Ser Thr
      225      230      235      240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Gly Val
      245      250      255
Gly Val Tyr Leu Ser Ser Ala Ala Thr His Asn Ser Leu Ser Asn Ala
      260      265      270
Ala Ala Ser Val Met Tyr Thr Val Val Thr Ser Met Leu Asn Pro Phe
      275      280      285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Arg Ala Leu Asn Arg Phe
      290      295      300
Phe Arg Glu Gln Lys Gln Glu Gly His Phe
      305      310

```

&lt;210&gt; 1782

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g700 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1782

```

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
  1      5      10      15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Ser Val Leu Ala Leu Leu Ser
      20      25      30
Leu Ser Leu Ser Leu Asn Leu Val Thr Val Leu Arg Asn Leu Leu Ser
      35      40      45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe
      50      55      60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Leu Thr Ser Ala Thr
      65      70      75      80
Val Pro Lys Val Ile Leu Asp Met Gln Ser His Ser Arg Val Ile Ser
      85      90      95
His Val Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
      100      105      110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Gly Cys Phe Val Ala
      115      120      125
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
      130      135      140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Asn Leu Leu Asp Ser Gln
      145      150      155      160
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
      165      170      175
Ile Ser Asn Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys
      180      185      190
Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met
      195      200      205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile

```

```

      210              215              220
Val Pro Ser Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala
225              230              235              240
Phe Ser Thr Tyr Gly Ser His Leu Gly Val Val Cys Trp Phe Tyr Gly
      245              250              255
Thr Val Ile Gly Met Tyr Leu Ala Ser Ala Val Ser Pro Pro Arg
      260              265              270
Asn Gly Val Val Ala Ser Val Met Xaa Ala Val Val Thr Pro Met Leu
      275              280              285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
      290              295              300
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
305              310              315              320
Phe Phe Leu Cys

```

<210> 1783  
 <211> 339  
 <212> PRT  
 <213> Unknown (H38g701 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(339)  
 <223> Xaa = Any Amino Acid

```

<400> 1783
Pro Ile Glu Gln Gly Asn Tyr Thr Arg Val Lys Glu Phe Phe Phe Gln
1              5              10              15
Gly Leu Thr Gln Ser Gln Glu Leu Ser Leu Val Leu Phe Leu Phe Leu
      20              25              30
Phe Phe Val Tyr Ser Ala Thr Val Leu Gly Asn Leu Leu Ile Met Val
      35              40              45
Val Val Thr Cys Glu Ser Arg Leu His Thr Pro Thr Tyr Phe Leu Leu
      50              55              60
Cys Asn Leu Ser Val Leu Val Ile Cys Phe Ser Ser Ile Thr Ala Arg
65              70              75              80
Lys Val Leu Ile Asp Leu Ser Ser Arg Lys Thr Ile Ser Phe Asn Gly
      85              90              95
Cys Met Thr Gln Met Phe Phe Phe His Leu Leu Gly Gly Thr Asp Val
      100              105              110
Phe Ser Leu Phe Val Met Ala Phe Asp Gln Tyr Met Ala Ile Phe Lys
      115              120              125
Pro Leu His Cys Val Thr Ile Val Ser Arg Gly Gln Cys Ile Pro Tyr
      130              135              140
Ile Val Ser Arg Gly Arg Glu Xaa Gly Ala Gly Leu Ile Met Ala Ser
145              150              155              160
Trp Val Gly Gly Phe Val His Ser Ile Val Gln Val Phe Leu Leu Leu
      165              170              175
Pro Leu Pro Phe Cys Gly His His Met Ile Asp Gly Phe Tyr Cys Asp
      180              185              190
Val Pro Gln Val Leu Lys Leu Ala Cys Thr His Thr Phe Ala Leu Glu
      195              200              205
Val Leu Met Ile Ser Asn Asn Gly Leu Ile Ser Met Leu Trp Phe Ile
      210              215              220
Phe Leu Leu Ile Ser Tyr Thr Val Ile Leu Met Met Leu Arg Ser His
225              230              235              240
Thr Glu Glu Gly Arg Arg Lys Ala Ile Ala Thr Cys Thr Ser His Ile
      245              250              255

```

Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr Val His Ala Gln  
                   260                  265                  270  
 Pro Phe Thr Ala Leu Pro Thr Asp Arg Ala Val Ser Ile Thr Phe Thr  
                   275                  280                  285  
 Val Ile Ile Pro Val Leu Asn Pro Met Ile Tyr Thr Leu Arg Asn Gln  
                   290                  295                  300  
 Glu Met Lys Ser Ala Leu Arg Arg Arg Lys Lys Arg Pro Ser Gly Lys  
 305                  310                  315                  320  
 Gly Xaa Met Leu Arg Ser Pro Asp Trp Lys Ile Arg Thr Glu Lys Tyr  
                   325                  330                  335  
 Phe Phe Ile

<210> 1784

<211> 335

<212> PRT

<213> Unknown (H38g702 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(335)

<223> Xaa = Any Amino Acid

<400> 1784

Ser Thr Tyr Pro Gln Asn Leu Thr Asp Val Ser Leu Phe Leu Leu Leu  
 1                  5                  10                  15  
 Gly Ser Ser Glu Asp Pro Glu Gln Gln Pro Val Leu Ala Gly Leu Phe  
                   20                  25                  30  
 Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu  
                   35                  40                  45  
 Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu  
 50                  55                  60  
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Ser Met Val Pro  
 65                  70                  75                  80  
 Lys Met Ile Val Asp Ile Xaa Ser His Ser Arg Leu Ile Ser Xaa Ala  
                   85                  90                  95  
 Gly Cys Leu Thr Pro Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu  
                   100                  105                  110  
 Glu Asn Met Leu Leu Ser Val Ile Ala Tyr Asp Pro Phe Val Ala Ile  
                   115                  120                  125  
 Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly  
                   130                  135                  140  
 Phe Leu Val Leu Leu Ser Phe Phe Ser Gln Ser Leu Leu Asp Ala Gln  
 145                  150                  155                  160  
 Val His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu  
                   165                  170                  175  
 Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys  
                   180                  185                  190  
 Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Ser Pro Ala Ala Ile  
                   195                  200                  205  
 Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile  
                   210                  215                  220  
 Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala  
 225                  230                  235                  240  
 Cys Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly  
                   245                  250                  255  
 Thr Gly Phe Trp Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Gly  
                   260                  265                  270  
 Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Pro

	275		280		285
Asn	Pro Phe Ile Tyr Ser	Leu Arg Asn Arg Asp Ile	Lys Ser Val Leu		
290		295	300		
Arg	Arg Pro His Gly Ser	Thr Val Xaa Cys Gln Tyr	Leu Leu Ile Cys		
305		310	315		320
Ser	Met Pro Phe Val Val	Trp Val Lys Lys Gly Ser	Lys Val Lys		
	325		330		335

&lt;210&gt; 1785

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g703 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1785

Met	Lys	Asn	Cys	Thr	Arg	Val	Lys	Glu	Phe	Ile	Phe	Leu	Gly	Leu	Thr
1				5					10					15	
Gln	Asn	Gly	Asp	Thr	Arg	Leu	Val	Leu	Phe	Leu	Phe	Leu	Leu	Leu	Val
			20					25					30		
Tyr	Met	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr	Val	Thr
		35					40					45			
Cys	Glu	Ser	Cys	Leu	His	Met	Pro	Met	Tyr	Phe	Leu	Leu	His	Asn	Leu
	50					55					60				
Ser	Ile	Ala	Asp	Ile	Cys	Phe	Tyr	Ser	Ile	Thr	Glu	Pro	Lys	Val	Leu
65				70					75					80	
Val	Asp	Leu	Leu	Ser	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Asn	Gly	Cys	Phe
				85				90					95		
Thr	Gln	Met	Phe	Leu	Phe	His	Leu	Ile	Gly	Gly	Val	Asp	Ala	Phe	Ser
		100					105					110			
Leu	Ser	Val	Met	Ala	Leu	Asp	Gln	Tyr	Val	Ala	Ile	Ser	Lys	Ser	Leu
		115				120						125			
His	Tyr	Ala	Thr	Ile	Met	Ser	Arg	Asp	Arg	Cys	Ile	Gly	Leu	Thr	Val
	130				135					140					
Ala	Ala	Trp	Leu	Gly	Gly	Phe	Val	His	Ser	Ile	Val	Gln	Ile	Thr	Leu
145				150					155					160	
Leu	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Thr	Phe	Tyr
			165					170						175	
Cys	Asp	Val	Pro	Gln	Val	Leu	Lys	Leu	Ala	His	Thr	Asp	Ile	Phe	Ile
		180					185					190			
Leu	Glu	Leu	Leu	Met	Ile	Ser	Asn	Asn	Gly	Leu	Leu	Thr	Thr	Leu	Trp
	195					200						205			
Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Met	Val	Ile	Leu	Ser	Leu	Leu	Lys
	210				215					220					
Ser	Gln	Ala	Gly	Xaa	Gly	Arg	Arg	Lys	Val	Ile	Ser	Thr	Cys	Thr	Ser
225				230					235					240	
His	Ile	Thr	Val	Val	Thr	Leu	His	Phe	Val	Pro	Cys	Ile	Tyr	Val	Tyr
			245					250					255		
Ala	Arg	Pro	Phe	Thr	Ala	Leu	Pro	Thr	Asp	Lys	Ala	Ile	Ser	Val	Thr
		260					265					270			
Phe	Thr	Val	Ile	Ser	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275				280						285				
Asn	His	Glu	Met	Lys	Ser	Thr	Met	Lys	Arg	Arg	Arg	Leu	Xaa	Pro	Ser
	290				295				300						
Asp	Arg	Lys	Xaa	Thr	Ser	Ala	Ser	Leu	Leu	Leu					
305				310					315						



<210> 1786  
 <211> 321  
 <212> PRT  
 <213> Unknown (H38g704 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(321)  
 <223> Xaa = Any Amino Acid

<400> 1786  
 His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Lys Val Leu Leu Gly  
 1 5 10 15  
 Ser Leu Xaa Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Ser  
 20 25 30  
 Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Val Leu Ile Ile Leu  
 35 40 45  
 Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Ser Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro  
 65 70 75 80  
 Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Val  
 85 90 95  
 Ser Cys Leu Thr Gln Ile Ser Phe Leu Val Leu Phe Ala Cys Met Glu  
 100 105 110  
 Asp Met Leu Thr Val Met Ala Tyr Asp Arg Val Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Arg Val Phe Leu  
 130 135 140  
 Val Leu Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser  
 145 150 155 160  
 Trp Ile Val Leu Gln Phe Thr Leu Phe Lys Asn Val Glu Asn Ser Ser  
 165 170 175  
 Phe Val Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser  
 180 185 190  
 Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe  
 195 200 205  
 Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser  
 210 215 220  
 Ile Leu Arg Met Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Tyr Gly Ser Gln Leu Ala Ala Leu Cys Xaa Phe Tyr Gly Thr Gly Ile  
 245 250 255  
 Gly Met Tyr Leu Thr Ser Ala Val Ala Leu Pro Pro Arg Asn Gly Val  
 260 265 270  
 Val Ala Ser Val Met Xaa Ala Val Val Thr Pro Met Leu Asn Phe Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu  
 290 295 300  
 Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser Phe Phe Leu  
 305 310 315 320  
 Cys

<210> 1787  
 <211> 318  
 <212> PRT  
 <213> Unknown (H38g705 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(318)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1787

```

Lys Gln Gln Glu Asn Gly Thr Cys Leu Val Thr Glu Phe Leu Met Met
 1          5          10          15
Gly Phe Ser Asn Leu Pro His Leu Arg Asn Thr Leu Phe Thr Leu Phe
          20          25          30
Phe Leu Thr Tyr Leu Val Thr Leu Gly Gly Asn Val Thr Ile Ile Thr
          35          40          45
Ile Thr His Ala Asp Arg Ser Arg His Thr Pro Met Tyr His Phe Leu
          50          55          60
Val Val Leu Ser Leu Ser Glu Thr Val Leu Tyr Thr Leu Val Thr Ile
65          70          75          80
Pro Ser Met Leu Ala His Leu Leu Met Glu Thr Arg Pro Ile Ser Ile
          85          90          95
Pro Gly Cys Gln Ala Gln Met Phe Phe Phe Leu Gly Leu Gly Cys Ser
          100          105          110
His Cys Phe Leu Leu Thr Leu Met Gly Tyr Asp Arg Tyr Val Ala Ile
          115          120          125
Cys His Pro Leu Arg Tyr Ser Met Val Met Arg Pro Thr Val Cys Leu
          130          135          140
Cys Leu Gly Ala Leu Val Phe Cys Ser Gly Phe Ser Val Ala Leu Ile
145          150          155          160
Glu Thr Ser Met Ile Phe Ser Ser Pro Phe Cys Gly Gly Asp His Val
          165          170          175
Glu His Phe Phe Cys Asp Ile Ala Pro Val Leu Lys Leu Ser Cys Ala
          180          185          190
Lys Ser Ala Ser Lys Ala Leu Gly Ile Phe Phe Leu Ser Val Leu Val
          195          200          205
Val Leu Met Ser Phe Val Pro Ile Leu Phe Ser Tyr Ala Phe Ile Val
          210          215          220
Ala Ala Ile Val Arg Ile Ser Leu Ala Ala Gly Arg Arg Lys Ala Phe
225          230          235          240
Ser Thr Cys Val Ala His Val Thr Val Val Val Val His Phe Asp Cys
          245          250          255
Ala Ser Ile Ile Tyr Leu Arg Pro Glu Ser Gly Ala Asn Pro Asp Gln
          260          265          270
Asp Arg Leu Val Ala Val Phe Tyr Thr Val Val Met Pro Leu Leu Asn
          275          280          285
Pro Val Val Cys Thr Leu Trp Asn Lys Glu Val Arg Val Ala Leu Arg
          290          295          300
Arg Thr Leu Ala Trp Ser Arg Gly Val Phe Lys Xaa Glu Ser
305          310          315

```

&lt;210&gt; 1788

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g706 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1788

```

Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala Leu Leu Lys Leu Ala
 1          5          10          15

```

Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln Met Phe Ala Ala Arg  
 20 30  
 Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile Leu Ala Ser Tyr Gly  
 35 40 45  
 Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe Ser Gly Gly Arg Arg  
 50 55 60  
 Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr Ala Val Cys Leu Phe  
 65 70 75 80  
 Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Ala Gln Arg Tyr Asn  
 85 90 95  
 Gln His Gly Asn Arg Phe Val Ser Leu Phe Tyr Thr Val Val Thr Pro  
 100 105 110

&lt;210&gt; 1789

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g707 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1789

Met Asp Gln Arg Asn Tyr Thr Arg Val Lys Glu Phe Thr Phe Leu Gly  
 1 5 10 15  
 Ile Thr Gln Ser Arg Glu Leu Ser Gln Val Leu Phe Thr Phe Leu Phe  
 20 25 30  
 Leu Val Tyr Met Thr Thr Leu Met Gly Asn Phe Leu Ile Met Val Thr  
 35 40 45  
 Val Thr Cys Glu Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Arg  
 50 55 60  
 Asn Leu Ser Ile Leu Asp Ile Cys Phe Ser Ser Ile Thr Ala Pro Lys  
 65 70 75 80  
 Val Leu Ile Asp Leu Leu Ser Glu Thr Lys Thr Ile Ser Phe Ser Gly  
 85 90 95  
 Cys Val Thr Gln Met Phe Phe Phe His Leu Leu Gly Gly Ala Asp Val  
 100 105 110  
 Phe Ser Leu Ser Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Ser Lys  
 115 120 125  
 Pro Leu His Tyr Met Thr Ile Met Ser Arg Gly Arg Cys Thr Gly Leu  
 130 135 140  
 Ile Val Gly Phe Leu Gly Gly Gly Leu Val His Ser Ile Ala Gln Ile  
 145 150 155 160  
 Ser Leu Leu Leu Pro Leu Pro Val Cys Gly Pro Asn Val Leu Asp Thr  
 165 170 175  
 Phe Tyr Cys Asp Val Pro Gln Val Leu Lys Leu Ala Cys Thr Asp Thr  
 180 185 190  
 Phe Thr Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Val Ser Trp  
 195 200 205  
 Phe Val Phe Phe Phe Leu Ile Ser Tyr Thr Val Ile Leu Met Met  
 210 215 220  
 Leu Arg Ser His Thr Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys  
 225 230 235 240  
 Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr  
 245 250 255  
 Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Thr Asp Thr Ala Ile Ser  
 260 265 270  
 Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Ile Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Gln Glu Met Lys Leu Ala Met Arg Lys Leu Lys Arg Arg  
 290 295 300  
 Leu Gly Gln Ser Glu Arg Ile Leu Ile

305

310

<210> 1790  
 <211> 162  
 <212> PRT  
 <213> Unknown (H38g708 protein)

<220>  
 <223> Synthetic construct

<400> 1790  
 Val Ala Ile Cys Asn Pro Leu Leu Tyr Pro Val Met Met Ser Asn Lys  
 1 5 10 15  
 Leu Ser Ala Gln Leu Leu Ser Ile Ser Tyr Val Ile Gly Phe Leu His  
 20 25 30  
 Pro Leu Val His Val Ser Leu Leu Arg Leu Thr Phe Cys Arg Phe  
 35 40 45  
 Asn Ile Ile His Tyr Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile  
 50 55 60  
 Ser Cys Asn Gly Pro Ser Ile Asn Ala Leu Ile Ile Phe Ile Phe Gly  
 65 70 75 80  
 Ala Phe Ile Gln Ile Pro Thr Leu Met Thr Ile Ile Ile Ser Tyr Thr  
 85 90 95  
 Arg Val Leu Phe Asp Ile Leu Lys Lys Ser Glu Lys Gly Arg Ser  
 100 105 110  
 Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr  
 115 120 125  
 Tyr Gly Thr Leu Ile Phe Met Tyr Val Arg Pro Ala Ser Gly Leu Ala  
 130 135 140  
 Glu Asp Gln Asp Lys Val Tyr Ser Leu Phe Tyr Thr Ile Ile Ile Pro  
 145 150 155 160  
 Leu Leu

<210> 1791  
 <211> 258  
 <212> PRT  
 <213> Unknown (H38g709 protein)

<220>  
 <223> Synthetic construct

<400> 1791  
 Met Tyr Tyr Phe Leu Cys His Leu Ala Leu Val Asp Ala Gly Phe Thr  
 1 5 10 15  
 Thr Ser Val Val Pro Pro Leu Leu Ala Asn Leu Arg Gly Pro Ala Leu  
 20 25 30  
 Trp Leu Pro Arg Ser His Cys Thr Ala Gln Leu Cys Ala Ser Leu Ala  
 35 40 45  
 Leu Gly Ser Ala Glu Cys Val Leu Leu Ala Val Met Ala Leu Asp Arg  
 50 55 60  
 Ala Ala Ala Val Cys Arg Pro Leu Arg Tyr Ala Gly Leu Val Ser Pro  
 65 70 75 80  
 Arg Leu Cys Arg Thr Leu Ala Ser Ala Ser Trp Leu Ser Gly Leu Thr  
 85 90 95  
 Asn Ser Val Ala Gln Thr Ala Leu Leu Ala Glu Arg Pro Leu Cys Ala  
 100 105 110  
 Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala Leu Leu Lys  
 115 120 125  
 Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln Met Phe Ala  
 130 135 140

Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val Ile Leu Ala Ser  
 145 150 155 160  
 Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe Ser Gly Gly  
 165 170 175  
 Arg Arg Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr Ala Val Cys  
 180 185 190  
 Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Ala Gln Arg  
 195 200 205  
 Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val  
 210 215 220  
 Thr Pro Ala Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Lys Val  
 225 230 235 240  
 Lys Gly Ala Ala Arg Arg Leu Leu Arg Ser Leu Gly Arg Gly Gln Ala  
 245 250 255  
 Gly Gln

<210> 1792

<211> 316

<212> PRT

<213> Unknown (H38g710 protein)

<220>

<223> Synthetic construct

<400> 1792

Met Gln Arg Ala Asn His Ser Thr Val Thr Gln Phe Ile Leu Val Gly  
 1 5 10 15  
 Phe Ser Val Phe Pro His Leu Gln Leu Met Leu Phe Leu Leu Phe Leu  
 20 25 30  
 Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr  
 35 40 45  
 Val Trp Ser Glu Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Cys  
 50 55 60  
 Ala Leu Ser Val Ser Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg  
 65 70 75 80  
 Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala  
 85 90 95  
 Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser  
 100 105 110  
 Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Gly Cys Ala Cys Leu  
 130 135 140  
 Val Gly Cys Ser Trp Ala Gly Gly Leu Val Met Gly Met Val Val Thr  
 145 150 155 160  
 Ser Ala Ile Phe His Leu Ala Phe Cys Gly His Lys Glu Ile His His  
 165 170 175  
 Phe Ala Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Asp  
 180 185 190  
 Val Leu Val Val Ala Lys Gly Val Gly Leu Val Cys Ile Thr Ala Leu  
 195 200 205  
 Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala  
 210 215 220  
 Ala Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Ala Ser His Leu Thr Val Val Val Val His Tyr Gly Phe Ala  
 245 250 255  
 Ser Val Ile Tyr Leu Lys Pro Lys Ser Pro Gln Ser Leu Glu Gly Asp  
 260 265 270  
 Thr Leu Met Gly Ile Thr Tyr Thr Val Leu Thr Pro Phe Leu Ser Pro

	275		280		285
Ile	Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Lys				
	290		295		300
Thr	Phe Phe Ser Lys Leu Tyr Pro Glu Lys Asn Val				
305		310		315	

<210> 1793  
 <211> 225  
 <212> PRT  
 <213> Unknown (H38g711 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(225)  
 <223> Xaa = Any Amino Acid

<400> 1793

Leu	Pro	Asp	Ile	Gly	Phe	Thr	Ser	Thr	Thr	Val	Pro	Lys	Met	Ile	Val
1				5					10					15	
Asp	Ile	Gln	Ser	His	Ser	Arg	Val	Leu	Ser	Tyr	Ala	Gly	Cys	Leu	Ile
		20					25						30		
Arg	Cys	Leu	Ser	Leu	Pro	Leu	Leu	Glu	Ala	Trp	Lys	Arg	Gly	Met	Leu
		35				40						45			
Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro	Leu
	50				55						60				
Tyr	Arg	Ser	Ala	Ile	Leu	Asn	Pro	Xaa	Phe	Cys	Gly	Phe	Leu	Asp	Leu
65				70						75				80	
Leu	Ser	Phe	Phe	Phe	Leu	Phe	Val	Cys	Phe	Val	Phe	Leu	Ser	Leu	Leu
			85					90					95		
Asp	Ser	Gln	Leu	His	Asn	Leu	Ile	Ala	Leu	Gln	Met	Thr	Cys	Ser	Lys
		100					105						110		
Asp	Val	Glu	Ile	Pro	Asn	Phe	Phe	Trp	Glu	Pro	Ser	Gln	Leu	Pro	His
		115					120					125			
Leu	Ala	Cys	Cys	Asp	Thr	Phe	Thr	Arg	Asn	Ile	Asn	Met	Tyr	Phe	Pro
		130				135					140				
Ala	Ala	Val	Phe	Gly	Phe	Leu	Pro	Ile	Ser	Gly	Thr	Phe	Tyr	Ser	Tyr
145				150						155				160	
Cys	Lys	Ile	Leu	Ser	Ser	Ile	Leu	Arg	Val	Ser	Ser	Ser	Gly	Gly	Lys
			165					170						175	
Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Xaa
		180					185						190		
Phe	Tyr	Gly	Thr	Gly	Val	Gly	Gly	Tyr	Leu	Gly	Ser	Asp	Val	Ser	Ser
		195				200						205			
Ser	Pro	Arg	Lys	Ser	Ala	Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr
	210					215						220			

Pro  
 225

<210> 1794  
 <211> 218  
 <212> PRT  
 <213> Unknown (H38g712 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(218)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 1794

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Arg Leu Thr
      20           25           30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Ser Met Leu
      35           40           45
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
      50           55           60
Cys His Ser Ala Ile Thr Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
      65           70           75           80
Leu Ser Phe Phe Phe Leu Ser Pro Leu Asp Ala Gln Leu His Asn Leu
      85           90           95
Ile Ala Leu Gln Arg Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe
      100          105          110
Phe Cys Asp Pro Ser Gln Phe Pro Arg Leu Ala Cys Cys Gly Thr Phe
      115          120          125
Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
      130          135          140
Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Phe Ser Ile
      145          150          155          160
Leu Arg Val Ser Ser Ser Gly Gly Lys His Lys Ala Phe Ser Thr Arg
      165          170          175
Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val Gly
      180          185          190
Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg Lys Gly Ala Val
      195          200          205
Ala Ser Val Met Tyr Thr Val Val Thr Pro
      210          215

```

&lt;210&gt; 1795

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g713 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1795

```

Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met Ala
 1           5           10           15
Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala Ala
      20           25           30
Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu Leu
      35           40           45
Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu His
      50           55           60
Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile Gly
      65           70           75           80
Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp Thr
      85           90           95
Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe Cys
      100          105          110
Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile Ser
      115          120          125
Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala Leu
      130          135          140
Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu Lys
      145          150          155          160
Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala Ser

```

				165					170					175			
His	Phe	Ile	Ala	Val	Gly	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe	Met	Tyr		
			180					185					190				
Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Met	Ala	Pro		
		195					200					205					
Val	Phe	Tyr	Thr	Met	Val	Ile	Pro										
	210					215											

&lt;210&gt; 1796

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g714 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1796

Ile	Val	Asp	Ile	Ser	Tyr	Ala	Ser	Asn	Tyr	Val	Pro	Lys	Met	Leu	Thr		
1				5					10					15			
Asn	Leu	Met	Asn	Gln	Glu	Ser	Thr	Ile	Ser	Phe	Phe	Pro	Cys	Ile	Met		
			20					25					30				
Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	His	Val	Glu	Cys	Leu	Ile	Leu		
		35				40						45					
Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Ala	Asp	Ile	Cys	His	Pro	Leu	Arg		
	50				55						60						
Tyr	Asn	Ile	Leu	Met	Ser	Trp	Arg	Val	Cys	Thr	Val	Leu	Ala	Val	Ala		
65					70				75						80		
Ser	Trp	Val	Phe	Ser	Phe	Leu	Leu	Ala	Leu	Val	Pro	Leu	Val	Leu	Ile		
			85					90						95			
Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Ile	Asn	His	Phe	Cys	Glu		
			100					105					110				
Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Trp	Leu	Asn	Gln		
	115					120						125					
Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Ile	Leu	Val	Gly	Pro	Leu	Cys		
	130				135						140						
Leu	Val	Leu	Val	Ser	Tyr	Leu	Arg	Ile	Leu	Ala	Ala	Ile	Leu	Arg	Ile		
145					150				155						160		
Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His		
				165					170					175			
Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val	Thr	Tyr	Met		
			180					185					190				
Ala	Pro	Lys	Ser	Arg	His	Pro	Glu	Glu	Gln	Gln	Lys	Val	Leu	Ser	Leu		
	195					200						205					
Phe	Tyr	Ser	Leu	Phe	Asn	Pro											
	210					215											

&lt;210&gt; 1797

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g715 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1797

Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Val	Val	Ile	Met	Asn	Asn	Arg		
1				5					10					15			
Val	Cys	Thr	Leu	Leu	Val	Leu	Cys	Cys	Trp	Val	Ala	Gly	Leu	Met	Ile		
		20						25					30				
Ile	Val	Pro	Pro	Leu	Ser	Leu	Gly	Leu	Gln	Leu	Glu	Phe	Cys	Asp	Ser		
		35					40					45					



```

Asn Ala Ile Asp His Phe Ser Cys Asp Ala Gly Pro Leu Leu Lys Ile
 50          55          60
Ser Cys Ser Asp Thr Trp Val Ile Glu Gln Met Val Ile Leu Met Ala
65          70          75          80
Val Phe Ala Leu Ile Ile Thr Pro Val Cys Val Ile Leu Ser Tyr Leu
          85          90          95
Tyr Ile Val Arg Thr Ile Leu Lys Phe Pro Ser Val Gln Gln Arg Lys
          100          105          110
Lys Ala Phe Ser Thr Cys Ser Ser His Met Ile Val Val Ser Ile Ala
          115          120          125
Tyr Gly Ser Cys Ile Phe Ile Tyr Ile Lys Pro Ser Ala Lys Asp Glu
          130          135          140
Val Ala Ile Asn Lys Gly Val Ser Val Leu Thr Thr Ser Val Ala Pro
145          150          155          160
Leu Leu

```

&lt;210&gt; 1798

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g716 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(224)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1798

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
 1          5          10          15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
          20          25          30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu
          35          40          45
Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro Pro
50          55          60
Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Gln Asp Leu
65          70          75          80
Leu Ser Leu Tyr Phe Phe Leu Phe Phe Ser Phe Phe Leu Arg Leu Leu
          85          90          95
Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys
          100          105          110
Asp Val Glu Ile Ser Asn Val Phe Trp Glu Pro Ser Gln Leu Ser His
          115          120          125
Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Met Tyr Phe Pro Ala
130          135          140
Ala Ile Phe Gly Phe Leu Pro Ile Leu Gly Thr Leu Phe Ser Tyr Cys
145          150          155          160
Lys Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr
          165          170          175
Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe
          180          185          190
Tyr Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser
          195          200          205
Leu Arg Lys Ala Ala Val Ala Ser Val Met Tyr Lys Met Val Thr Pro
210          215          220

```

&lt;210&gt; 1799

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g717 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(218)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1799

```

Leu Ala Asp Ile Gly Phe Thr Ser Asn Thr Val Pro Lys Met Ile Val
 1           5           10           15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
      20           25           30
Gln Met Ser Leu Phe Ala Val Phe Gly Gly Met Glu Glu Ser Met Leu
      35           40           45
Leu Ser Val Arg Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
      50           55           60
Tyr Tyr Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
      65           70           75           80
Cys Phe Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Leu
      85           90           95
Ile Ala Leu Gln Met Thr Cys Ile Lys Asp Val Glu Ile Pro Asn Phe
      100           105           110
Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe
      115           120           125
Thr Ile Asn Ile Val Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu
      130           135           140
Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys Ile Val Ser Ser Ile
      145           150           155           160
Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys
      165           170           175
Gly Ser His Leu Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val Gly
      180           185           190
Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala Val
      195           200           205
Ala Ser Val Met Tyr Thr Val Val Thr Pro
      210           215

```

&lt;210&gt; 1800

&lt;211&gt; 295

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g718 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1800

```

Leu Ile Phe Phe Leu Ile Tyr Pro Leu Ile Leu Val Gly Asn Asp Gln
 1           5           10           15
Ile Leu Val Val Val Met Ala Glu Ala Ser Leu His Lys Pro Val Tyr
      20           25           30
Phe Phe Leu Ile Asn Leu Ser Ala Leu Asp Ile Leu Ser Thr Thr Val
      35           40           45
Thr Val Pro Lys Thr Leu Pro Leu Phe Leu Leu Gly Asp His Phe Leu
      50           55           60
Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Leu Phe His Ser Phe Ser
      65           70           75           80
Cys Ser Glu Ala Phe Ile Leu Val Val Met Ala Tyr Asp Arg Tyr Val
      85           90           95

```

Ala Ile Cys His Pro Leu Gln Tyr Pro Val Leu Met Asn Pro Gln Thr  
 100 105 110  
 Asn Ala Val Leu Ala Thr Gly Ala Trp Leu Thr Ala Leu Leu Leu Pro  
 115 120 125  
 Ile Pro Ala Val Val Gln Thr Ser Gln Met Ala Phe Asp Ser Ile Ala  
 130 135 140  
 Asp Ile Tyr His Cys Phe Cys Asp His Leu Ala Val Val Gln Ala Ser  
 145 150 155 160  
 Cys Ser Asp Thr Ser Pro Gln Thr Phe Met Gly Phe Cys Ile Ala Met  
 165 170 175  
 Val Val Ser Phe Leu Pro Leu Leu Leu Val Leu Leu Ser Tyr Ala His  
 180 185 190  
 Ile Leu Thr Ser Val Leu Arg Ile Asn Ser Gln Glu Gly Arg Ser Lys  
 195 200 205  
 Ala Phe Ser Thr Cys Ser Ser His Leu Pro Val Val Gly Thr Tyr Tyr  
 210 215 220  
 Ser Ser Ile Ala Ile Ala Tyr Val Ala Tyr Ser Ala Asp Leu Pro Leu  
 225 230 235 240  
 Asp Phe His Val Met Gly Asn Val Val His Ala Leu Leu Leu Pro Leu  
 245 250 255  
 Leu Leu Leu Leu Pro Leu Pro Leu Leu Pro Leu Pro Leu Arg Leu Pro  
 260 265 270  
 Leu Leu Leu Leu Leu Arg Ser Pro Ser Ser Ser Ser Ser Ser Pro Ser  
 275 280 285  
 Pro Ser Ser Ser Phe Phe Phe  
 290 295

&lt;210&gt; 1801

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g719 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1801

Met Glu Met Glu Asn Cys Thr Arg Val Lys Glu Phe Ile Phe Leu Gly  
 1 5 10 15  
 Leu Thr Gln Asn Arg Glu Val Ser Leu Val Leu Phe Leu Phe Leu Leu  
 20 25 30  
 Leu Val Tyr Val Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr  
 35 40 45  
 Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu His  
 50 55 60  
 Asn Leu Ser Ile Ala Asp Ile Cys Phe Ser Ser Ile Thr Val Pro Lys  
 65 70 75 80  
 Val Leu Val Asp Leu Leu Ser Glu Arg Lys Thr Ile Ser Phe Asn His  
 85 90 95  
 Cys Phe Thr Gln Met Phe Leu Phe His Leu Ile Gly Gly Val Asp Val  
 100 105 110  
 Phe Ser Leu Ser Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser Lys  
 115 120 125  
 Pro Leu His Tyr Ala Thr Ile Met Ser Arg Asp Gln Cys Ile Gly Leu  
 130 135 140  
 Thr Val Ala Ala Trp Leu Gly Gly Phe Val His Ser Ile Val Gln Ile  
 145 150 155 160  
 Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr  
 165 170 175  
 Phe Tyr Cys Asp Val His Arg Val Leu Lys Leu Ala His Thr Asp Ile  
 180 185 190  
 Phe Ile Leu Glu Leu Leu Met Ile Ser Asn Asn Gly Leu Leu Thr Thr

195	200	205
Leu Trp Phe Phe Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Ser Leu		
210	215	220
Pro Lys Ser Gln Ala Gly Glu Gly Arg Arg Lys Ala Ile Ser Thr Cys		
225	230	235
Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr		
245	250	255
Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Met Asp Lys Ala Ile Ser		
260	265	270
Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr		
275	280	285
Leu Arg Asn His Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg		
290	295	300
Leu Val Pro Ser Asp Arg Lys		
305	310	

&lt;210&gt; 1802

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g720 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1802

Thr Met Gln Gln Asn Asn Ser Val Pro Glu Phe Ile Leu Leu Gly Leu		
1	5	10
Thr Gln Asp Pro Leu Arg Gln Lys Ile Val Phe Val Ile Phe Leu Ile		
20	25	30
Phe Tyr Met Gly Thr Val Val Gly Asn Met Leu Ile Ile Val Thr Ile		
35	40	45
Lys Ser Ser Arg Thr Leu Gly Ser Pro Met Tyr Phe Phe Leu Phe Tyr		
50	55	60
Leu Ser Phe Ala Asp Ser Cys Phe Ser Thr Ser Thr Ala Pro Arg Leu		
65	70	75
Ile Val Asp Ala Leu Ser Glu Lys Lys Ile Ile Thr Tyr Asn Glu Cys		
85	90	95
Met Thr Gln Val Phe Ala Leu His Leu Phe Gly Cys Met Glu Ile Phe		
100	105	110
Val Leu Ile Leu Met Ala Val Asp Arg Tyr Val Ala Ile Cys Lys Pro		
115	120	125
Leu Arg Tyr Pro Thr Ile Met Ser Gln Gln Val Cys Ile Ile Leu Ile		
130	135	140
Val Leu Ala Trp Ile Gly Ser Leu Ile His Ser Thr Ala Gln Ile Ile		
145	150	155
Leu Ala Leu Arg Leu Pro Phe Cys Gly Pro Tyr Leu Ile Asp His Tyr		
165	170	175
Cys Cys Asp Leu Gln Pro Leu Leu Lys Leu Ala Cys Met Asp Thr Tyr		
180	185	190
Met Ile Asn Leu Leu Leu Val Ser Asn Ser Gly Ala Ile Cys Ser Ser		
195	200	205
Ser Phe Met Ile Leu Ile Ile Ser Tyr Ile Val Ile Leu His Ser Leu		
210	215	220
Arg Asn His Ser Ala Lys Gly Lys Lys Lys Ala Leu Ser Ala Cys Thr		
225	230	235
Ser His Ile Ile Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe Ile		
245	250	255
Tyr Thr Arg Pro Pro Thr Thr Phe Pro Met Asp Lys Met Val Ala Val		
260	265	270
Phe Tyr Thr Ile Gly Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Leu		
275	280	285

Arg Asn Ala Glu Val Lys Asn Ala Met Arg Lys  
290 295

<210> 1803  
<211> 314  
<212> PRT  
<213> Unknown (H38g721 protein)

<220>  
<223> Synthetic construct

<221> VARIANT  
<222> (1)...(314)  
<223> Xaa = Any Amino Acid

<400> 1803  
Met Glu Leu Gly Asn Val Thr Arg Val Lys Glu Phe Ile Phe Leu Gly  
1 5 10 15  
Leu Thr Gln Ser Gln Asp Gln Ser Leu Val Leu Phe Leu Phe Leu Cys  
20 25 30  
Leu Val Tyr Met Thr Thr Leu Leu Gly Asn Leu Leu Ile Met Val Thr  
35 40 45  
Val Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg  
50 55 60  
Asn Leu Ala Ile Leu Asp Ile Cys Phe Ser Ser Thr Thr Ala Pro Lys  
65 70 75 80  
Val Leu Leu Asp Leu Leu Ser Lys Lys Lys Thr Ile Ser Tyr Thr Ser  
85 90 95  
Cys Met Thr Gln Ile Phe Leu Phe His Leu Leu Gly Gly Ala Asp Ile  
100 105 110  
Phe Ser Leu Ser Val Met Ala Phe Asp Cys Tyr Met Ala Ile Ser Lys  
115 120 125  
Pro Leu His Tyr Val Thr Ile Met Ser Arg Gly Gln Cys Thr Ala Leu  
130 135 140  
Ile Ser Ala Ser Trp Met Gly Gly Phe Val His Ser Ile Val Gln Ile  
145 150 155 160  
Ser Leu Leu Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Thr  
165 170 175  
Phe Tyr Cys Asp Val Pro Gln Val Leu Lys Leu Thr Cys Thr Asp Thr  
180 185 190  
Phe Ala Leu Glu Phe Leu Met Ile Ser Asn Asn Gly Leu Val Thr Thr  
195 200 205  
Leu Trp Phe Ile Phe Leu Leu Val Ser Tyr Thr Val Ile Leu Met Thr  
210 215 220  
Leu Arg Ser Gln Ala Gly Gly Gly Arg Arg Lys Ala Ile Ser Thr Cys  
225 230 235 240  
Thr Ser His Ile Thr Val Val Thr Leu His Phe Val Pro Cys Ile Tyr  
245 250 255  
Val Tyr Ala Arg Pro Phe Thr Ala Leu Pro Thr Glu Lys Ala Ile Ser  
260 265 270  
Val Thr Phe Thr Val Ile Ser Pro Leu Leu Asn Pro Leu Ile Tyr Thr  
275 280 285  
Leu Arg Asn Gln Glu Met Lys Ser Ala Met Arg Arg Leu Lys Arg Arg  
290 295 300  
Leu Val Pro Ser Glu Arg Glu Xaa Lys Thr  
305 310

<210> 1804  
<211> 314  
<212> PRT  
<213> Unknown (H38g722 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1804

```

Met Leu Gly Leu Asn His Thr Ser Met Ser Glu Phe Ile Leu Val Gly
 1           5           10           15
Phe Ser Ala Phe Pro His Leu Gln Leu Met Leu Phe Leu Leu Phe Leu
 20           25           30
Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
 35           40           45
Val Trp Ser Glu Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Cys
 50           55           60
Val Leu Ser Val Ser Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
 65           70           75           80
Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
 85           90           95
Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
 100          105          110
Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
 115          120          125
Pro Leu Arg Tyr Asn Val Leu Met Ser Pro Arg Gly Cys Ala Cys Leu
 130          135          140
Val Gly Cys Ser Trp Ala Gly Gly Ser Val Met Gly Met Val Val Thr
 145          150          155          160
Ser Ala Ile Phe Gln Leu Thr Phe Cys Gly Ser His Glu Ile Gln His
 165          170          175
Phe Leu Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asn Asn
 180          185          190
Val Pro Ala Val Ala Leu Gly Val Gly Leu Val Cys Ile Met Ala Leu
 195          200          205
Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
 210          215          220
Asp Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
 225          230          235          240
Thr Cys Ala Ser His Leu Ile Val Val Ile Val His Tyr Gly Phe Ala
 245          250          255
Ser Val Ile Tyr Leu Lys Pro Lys Gly Pro His Ser Gln Glu Gly Asp
 260          265          270
Thr Leu Met Ala Thr Thr Tyr Ala Val Leu Thr Pro Phe Leu Ser Pro
 275          280          285
Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Arg
 290          295          300
Thr Phe Leu Ser Thr Leu Tyr Ser Ser Gly
305          310

```

&lt;210&gt; 1805

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g723 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1805

```

Met Pro Gly Gln Asn Tyr Arg Thr Ile Ser Glu Phe Ile Leu Ser Gly
 1           5           10           15
Phe Ser Ala Phe Pro Gln Gln Leu Leu Pro Val Leu Phe Leu Leu Tyr
 20           25           30
Leu Leu Met Phe Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala
 35           40           45

```

```

Thr Val Trp Ile Glu Arg Arg Leu His Thr Pro Met Tyr Leu Phe Leu
 50          55          60
Cys Ala Leu Ser Ile Ser Glu Ile Leu Phe Thr Val Ala Ile Thr Pro
 65          70          75          80
Arg Met Leu Ala Asp Leu Leu Phe Thr His Arg Ser Ile Thr Phe Val
      85          90          95
Ala Cys Ala Ile Gln Met Phe Phe Ser Phe Met Phe Gly Phe Thr His
      100          105          110
Ser Phe Leu Leu Met Val Met Gly Tyr Asp His Tyr Val Thr Ile Cys
      115          120          125
His Pro Leu His Tyr Asn Met Leu Met Ser Pro Arg Gly Cys Ala His
      130          135          140
Leu Val Ala Trp Thr Trp Ala Gly Gly Ser Val Met Gly Met Met Val
      145          150          155          160
Thr Met Met Val Phe His Leu Thr Phe Cys Gly Ser Asn Val Ile His
      165          170          175
His Phe Leu Cys His Val Leu Ser Leu Leu Lys Leu Ala Cys Gly Ser
      180          185          190
Lys Thr Ser Ser Val Ile Met Gly Val Met Leu Val Cys Val Thr Ala
      195          200          205
Leu Ile Gly Cys Leu Phe Leu Ile Ile Leu Ser Phe Val Phe Ile Val
      210          215          220
Ala Ala Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg His Lys Thr Phe
      225          230          235          240
Ser Thr Cys Val Ser His Leu Thr Val Val Val Met His Tyr Ser Phe
      245          250          255
Ala Ser Leu Ile Tyr Leu Lys Pro Lys Gly Leu His Ser Met Tyr Ser
      260          265          270
Asp Ala Leu Met Ala Thr Thr Tyr Thr Val Phe Thr Pro Phe Leu Ser
      275          280          285
Pro Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Asn Ala Ile Asn
      290          295          300
Lys Asn Phe Cys Arg Arg Phe Cys Pro Leu Ser Ser
      305          310          315

```

&lt;210&gt; 1806

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g724 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(161)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1806

```

Gly Trp Lys Ser Ser Thr Phe Asn Ile Ser Cys Thr Lys Phe Phe Leu
 1          5          10          15
Val Gly Phe Pro Gly Leu Arg Glu Trp Trp Pro Leu Leu Val Leu Pro
      20          25          30
Leu Val Phe Leu Phe Val Thr Ile Ile Ser Ala Asn Ala Leu Val Ile
      35          40          45
His Thr Val Val Ala Arg Gln Asn Leu His Gln Pro Thr Cys Met Leu
      50          55          60
Ile Thr Val Leu Leu Ala Val Asn Ile Arg Ala Ala Thr Ala Val Met
      65          70          75          80
Pro Lys Met Leu Glu Gly Phe Val Tyr Tyr Ala Asn Pro Ile Ser Leu
      85          90          95
His Gly Arg Leu Ala Xaa Val Phe Phe Ile Tyr Phe Thr Leu Leu Leu

```

			100					105					110				
Asp	Tyr	Asn	Phe	Leu	Trp	Pro	Trp	Pro	Trp	Thr	Gly	Tyr	Phe	Ala	Ile		
		115						120				125					
Cys	His	Pro	Leu	Cys	Phe	Ser	Asp	Leu	Met	Thr	Ser	Gln	Leu	Leu	Gly		
	130					135					140						
Leu	Leu	Ala	Ile	Leu	Ala	Phe	Glu	Gln	Ser	Pro	Gly	Ser	Asp	Pro	Ala		
145					150					155					160		
Pro																	

&lt;210&gt; 1807

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g725 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(198)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1807

Val	Ala	Ile	Cys	His	Pro	Leu	Cys	Phe	Gln	Thr	Glu	Xaa	Leu	Pro	Ser		
1				5					10					15			
Trp	Leu	Gly	Leu	Leu	Ala	Ile	Leu	Ala	Leu	Thr	Gln	Ser	Trp	Gly	Val		
			20					25					30				
Thr	Val	Pro	Leu	Val	Val	Leu	Thr	Ala	Lys	Ala	Asp	Phe	Cys	Arg	Thr		
		35				40					45						
Ala	Val	Ile	Arg	His	Phe	Thr	Cys	Glu	Cys	Ile	Ala	Leu	Leu	Ser	Ile		
	50				55					60							
Ala	Cys	Gly	Asp	Leu	Thr	Phe	Asn	Asn	Trp	Leu	Gly	Leu	Ala	Met	Cys		
65				70					75					80			
Leu	Val	Thr	Val	Ile	Ser	Asp	Met	Ala	Leu	Leu	Gly	Thr	Ser	Tyr	Thr		
			85				90						95				
His	Ile	Ile	Tyr	Ala	Ala	Phe	Arg	Ile	Ser	Ser	Trp	Gly	Ala	Gln	Ala		
		100					105					110					
Lys	Ala	Leu	His	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Ile	Leu	Ser	Ile		
	115					120					125						
Tyr	Val	Ser	Gly	Leu	Ser	Thr	Ser	Ile	Thr	Phe	Xaa	Val	Ala	Lys	Thr		
	130					135					140						
Val	Ser	Gln	Asn	Val	Gln	Asn	Leu	Leu	Ser	Ala	Ile	Tyr	Leu	Leu	Leu		
145				150					155					160			
Pro	Gly	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Arg	Glu	Ile		
			165					170					175				
Gln	Gln	His	Val	Glu	Lys	Met	Leu	Cys	Glu	Lys	Glu	Thr	Ala	Gln	Lys		
		180					185						190				
Ala	Gly	Glu	Lys	Pro	Lys												
	195																

&lt;210&gt; 1808

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g726 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(315)

&lt;223&gt; Xaa = Any Amino Acid



&lt;400&gt; 1808

```

Phe Ser Gln Asn Leu Leu Ile Ser Gly Ser Gly Ser Phe Val Leu Leu
 1          5          10          15
Gly Met Pro Gly Leu Glu Ala Leu His Ala Trp Leu Ser Val Pro Val
          20          25          30
Cys Leu Leu Tyr Met Ala Ala Leu Val Gly Asn Ala Leu Leu Val Gly
          35          40          45
Leu Val Val Ala Asp Lys Ala Leu Trp Ala Pro Met Tyr Gln Leu Leu
          50          55          60
Trp Leu Leu Ala Ala Ala Asp Phe Val Leu Ala Thr Ser Thr Val Pro
65          70          75          80
Lys Ala Leu Ala Val Leu Trp Gly Leu Ser Ser Glu Ile Ser Phe Gly
          85          90          95
Gly Cys Leu Ala Gln Leu Phe Val Ala His Ser Val Asn His Cys His
          100          105          110
Ile Ala Glu Ser Ser Val Leu Leu Ser Thr Ala Val Asp Cys Gln Pro
          115          120          125
Leu Arg Tyr Gly Ala Leu Leu Ala Gln Phe Val Val Gly Leu Val Ala
          130          135          140
Leu Thr Thr Met Thr Arg Asp Val Cys Val Met Tyr Thr Leu Xaa Phe
          145          150          155          160
Leu Phe Lys Lys Leu Pro Tyr Cys Gly Gln Trp Ala Leu Pro His Thr
          165          170          175
Tyr Cys Glu His Met Gly Val Ala Cys Leu Ala Cys Gly Asp Thr Cys
          180          185          190
Pro Ile Ile Arg Tyr Gly Leu Ala Thr Thr Leu Leu Ser Pro Ala Leu
          195          200          205
Asp Leu Gly Leu Ile Gly Ala Ser Tyr Ala Leu Ile Phe Arg Ala Val
          210          215          220
Cys Arg Leu Pro Ser His Val Ala Cys His Lys Ala Leu Gly Asn Cys
          225          230          235          240
Gly Thr Tyr Ala Ser Ile Ile Gly Leu Phe Tyr Thr Pro Ala Leu Phe
          245          250          255
Ser Phe Leu Ala His Cys Phe Gly Cys His Thr Val Pro Asn His Ile
          260          265          270
His Ile Leu Leu Ala Asn Leu Tyr Ala Val Val Phe Pro Ala Phe Asn
          275          280          285
Pro Val Val Tyr Gly Val Gln Thr Gln Gln Ser Ser Glu Ala Gln Glu
          290          295          300
Leu Ala Ser Thr Phe Leu Gly Arg Ser Ser Glu
          305          310          315

```

&lt;210&gt; 1809

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g727 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1809

```

Met Asn Trp Glu Asn Glu Ser Ser Pro Lys Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ser Asp Arg Ala Trp Leu Gln Met Pro Leu Phe Val Val Leu Leu
          20          25          30
Ile Ser Tyr Thr Ile Thr Ile Phe Gly Asn Val Ser Ile Met Met Val
          35          40          45
Cys Ile Leu Asp Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu Thr
          50          55          60
Asn Leu Ser Ile Leu Asp Leu Cys Tyr Thr Thr Thr Thr Val Pro His

```

```

65          70          75          80
Met Leu Val Asn Ile Gly Cys Asn Lys Lys Thr Ile Ser Tyr Ala Gly
      85          90          95
Cys Val Ala His Leu Ile Ile Phe Leu Ala Leu Gly Ala Thr Glu Cys
      100         105         110
Leu Leu Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Val Cys Arg
      115         120         125
Pro Leu His Tyr Val Val Ile Met Asn Tyr Trp Phe Cys Leu Arg Met
      130         135         140
Ala Ala Phe Ser Trp Leu Ile Gly Phe Gly Asn Ser Val Leu Gln Ser
      145         150         155
Ser Leu Thr Leu Asn Met Pro Arg Cys Gly His Gln Glu Val Asp His
      165         170         175
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
      180         185         190
Lys Pro Ile Glu Ala Glu Leu Phe Phe Phe Ser Val Leu Ile Leu Leu
      195         200         205
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Gly Phe Ile Ala Gln Ala
      210         215         220
Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr
      225         230         235
Cys Gly Ser His Met Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
      245         250         255
Tyr Met Tyr Leu Gln Pro Pro Ser Ser Thr Ser Lys Asp Trp Gly Lys
      260         265         270
Met Val Ser Leu Phe Tyr Gly Ile Ile Thr Ser Met Leu Asn Ser Leu
      275         280         285
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Phe Lys Arg Leu
      290         295         300
Met Pro Arg Ile Phe Phe Cys Lys Lys
305          310

```

&lt;210&gt; 1810

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g728 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(323)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1810

```

Gly Thr Leu Asn Leu Ser Ser Phe Asn Pro Gly Leu Phe Ile Leu Leu
 1          5          10          15
Gly Ile Pro Gly Leu Glu Trp Phe Cys Ile Trp Met Gly Ile Leu Ser
      20         25         30
Phe Thr Ser Tyr Leu Val Ser Leu Ala Gly Asn Val Ile Leu Leu Tyr
      35         40         45
Leu Ile Thr Val Glu His Asn Leu His Lys Pro Met Phe Ser Phe Leu
      50         55         60
Ser Ile Pro Ala Ser Ala Asn Leu Ile Leu Cys Ile Thr Tyr Phe Pro
      65         70         75         80
Lys Thr Phe Gly Ile Phe Xaa Leu Lys Ala Gln Lys Ile Ile Phe Pro
      85         90         95
Gly Cys Phe Thr Arg Phe Phe Phe Phe Gly Leu Leu His Phe Ser Phe
      100        105        110
Phe Leu Asp Leu Ala Ile Leu Leu Gly Leu Ala Phe Asp His Tyr Met
      115        120        125

```

```

Thr Ile Gly Phe Leu Leu Arg Tyr Thr Ser Gly Leu Thr Pro Arg Thr
130 135 140
Leu Gly Lys Ile Val Val Ser Ile Asp Xaa Arg Phe Asn Asn Ile Leu
145 150 155 160
Pro Ile Asp Phe Leu Gly Lys His Leu Pro Phe Cys Arg Thr His Ile
165 170 175
Asn Ser Asn Thr Tyr Cys Glu His Ile Gly Val Ala Leu Leu Ser Tyr
180 185 190
Ala Asp Ile Ser Ile Asn Ile Trp Tyr Asp Phe Thr Ile Leu Val Met
195 200 205
Thr Ile Ile Ser Asp Leu Ile Leu Thr Asp Ile Ser Tyr Thr Leu Thr
210 215 220
Leu His Ala Val Phe His Leu Pro Ser Ser Asp Ala Leu Leu Lys Ala
225 230 235 240
Leu Ser Thr Cys Gly Ser His Val Ser Val Ile Leu Met Leu Tyr Thr
245 250 255
Pro Thr Met Leu Ser Ala Leu Thr His His Phe Gly Gln Ser Ile Ser
260 265 270
Cys Thr Phe Tyr Ile Met Phe Val Gly Leu Tyr Arg Ala Ile Pro Pro
275 280 285
Val Leu Asn Ser Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gly Asn
290 295 300
Lys Val Ile Leu Leu Phe Phe Leu Lys Gly Met Gln Xaa Tyr Glu Asp
305 310 315 320
Glu Asn Met

```

&lt;210&gt; 1811

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g729 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT.

&lt;222&gt; (1)...(337)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1811

```

Met Lys Lys Asn Ala Ser Phe Glu Asp Phe Phe Ile Leu Leu Gly Phe
1 5 10 15
Ser Asn Trp Pro His Leu Glu Val Val Leu Phe Val Val Ile Leu Ile
20 25 30
Phe Tyr Leu Ile Thr Leu Ile Gly Asn Leu Phe Ile Ile Ile Leu Ser
35 40 45
Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
50 55 60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser Ile Pro Gln Leu
65 70 75 80
Leu Val Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser Tyr Ala Gly Cys
85 90 95
Thr Val Gln Leu Tyr Phe Val Leu Ala Leu Gly Thr Ala Glu Cys Val
100 105 110
Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala Val Cys Arg Pro
115 120 125
Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys Arg Leu Leu Ala
130 135 140
Ala Ala Ser Trp Val Ser Gly Phe Thr Thr Ser Ala Leu His Ser Ser
145 150 155 160
Phe Thr Phe Trp Ile Pro Leu Cys Arg His Arg Leu Val Asp His Phe

```

```

                165                170                175
Phe Cys Glu Ala Pro Ala Leu Leu Arg Leu Ser Cys Val Asp Thr Xaa
                180                185                190
Ala Asn Glu Leu Thr Leu Met Val Met Ser Ser Ile Phe Val Leu Ile
                195                200                205
Pro Leu Ile Leu Ile Leu Thr Ser Tyr Gly Ala Ile Ala Arg Ala Val
                210                215                220
Leu Ser Met Gln Ser Thr Thr Gly Leu Gln Lys Val Leu Arg Thr Cys
225                230                235                240
Gly Ala His Leu Met Val Val Ser Leu Phe Phe Ile Pro Val Met Cys
                245                250                255
Met Tyr Leu Gln Pro Pro Ser Glu Asn Ser Gln Asp Gln Gly Lys Phe
                260                265                270
Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu Asn Pro Leu Ile
                275                280                285
Tyr Thr Phe Arg Asn Lys Asp Val Arg Gly Ala Val Lys Arg Leu Met
290                295                300
Gly Trp Glu Trp Gly Met Xaa Gln Gly Asn His Val Xaa Leu Leu Phe
305                310                315                320
Phe Leu Gly Ser Phe His Phe Glu Arg Leu Phe Pro Cys Phe Phe Val
                325                330                335
Ile

```

<210> 1812  
 <211> 319  
 <212> PRT  
 <213> Unknown (H38g730 protein)

<220>  
 <223> Synthetic construct  
  
 <221> VARIANT  
 <222> (1)...(319)  
 <223> Xaa = Any Amino Acid

```

<400> 1812
Met Ala Met Tyr Asn Met Ser Asp His Gly Thr Gly Leu Phe Ile Leu
1      5      10      15
Leu Gly Ile Pro Gly Leu Glu Gln Tyr His Val Trp Ile Ser Ile Pro
20     25     30
Phe Cys Leu Ile Tyr Leu Met Ala Val Val Ala Lys Ser Ile Leu Leu
35     40     45
Tyr Leu Ile Val Val Glu His Ser Leu His Ala Pro Met Phe Phe Phe
50     55     60
Leu Ser Met Leu Ala Ile Thr Asp Leu Ile Leu Ser Thr Thr Cys Val
65     70     75     80
Pro Lys Thr Leu Ser Ile Phe Trp Phe Gly Pro Gln Ile Ser Phe Pro
85     90     95
Gly Cys Leu Thr Gln Leu Phe Phe Leu His Tyr Ser Phe Val Leu Asp
100    105    110
Ser Ala Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys
115    120    125
Ser Pro Leu Arg Tyr Thr Thr Ile Leu Thr Pro Lys Thr Ile Val Lys
130    135    140
Ile Ala Val Gly Ile Cys Phe Arg Ser Phe Cys Val Phe Val Pro Cys
145    150    155    160
Val Phe Leu Val Asn Arg Leu Pro Phe Cys Arg Thr His Ile Ile Ser
165    170    175
His Thr Tyr Cys Glu His Ile Gly Val Ala Gln Leu Ala Cys Ala Asp
180    185    190

```

```

Ile Ser Ile Asn Ile Trp Cys Gly Phe Cys Val Pro Ile Met Thr Val
    195                200                205
Met Thr Asp Val Ile Leu Ile Ala Val Ser Tyr Thr Leu Met Leu Cys
    210                215                220
Gly Val Phe Cys Leu Pro Ser Gln Asp Ala Arg Gln Lys Ala Leu Cys
    225                230                235                240
Ser Cys Gly Ser His Val Cys Val Ile Leu Ile Phe Tyr Thr Pro Ala
    245                250                255
Phe Phe Ser Ile Leu Ala His Arg Phe Gly His Asn Val Pro His Thr
    260                265                270
Phe His Ile Met Phe Ala Asn Leu Tyr Val Ile Ile Pro Pro Ala Leu
    275                280                285
Asn Pro Ile Val Tyr Arg Ile Lys Thr Lys Gln Ile Gln Asn Arg Ile
    290                295                300
Leu Leu Leu Phe Pro Lys Gly Ser Gln Xaa Xaa Val Pro Glu Leu
    305                310                315

```

&lt;210&gt; 1813

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g731 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1813

```

Met Asn Asp Asp Gly Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile
  1          5          10          15
Leu Val Gly Phe Ser Asn Trp Pro His Leu Glu Val Val Ile Phe Val
    20          25          30
Val Val Leu Ile Phe Tyr Leu Met Thr Leu Ile Gly Asn Leu Phe Ile
    35          40          45
Ile Ile Leu Ser Tyr Leu Asp Ser His Leu His Thr Pro Met Tyr Phe
    50          55          60
Phe Leu Ser Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser
    65          70          75          80
Ile Pro Gln Leu Leu Val Asn Leu Trp Gly Pro Glu Lys Thr Ile Ser
    85          90          95
Tyr Ala Gly Cys Met Ile Gln Leu Tyr Phe Val Leu Ala Leu Gly Thr
    100         105         110
Thr Glu Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala
    115         120         125
Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys
    130         135         140
His Leu Leu Ala Val Ala Ser Trp Val Ser Gly Phe Thr Asn Ser Ala
    145         150         155         160
Leu His Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Gln
    165         170         175
Val Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys
    180         185         190
Val Asp Thr His Val Asn Glu Leu Thr Leu Met Ile Thr Ser Ser Ile
    195         200         205
Phe Val Leu Ile Pro Leu Ile Leu Ile Leu Thr Ser Tyr Gly Ala Ile
    210         215         220
Val Arg Ala Val Leu Arg Met Gln Ser Thr Thr Gly Leu Gln Lys Val
    225         230         235         240
Phe Gly Thr Cys Gly Ala His Leu Met Ala Val Ser Leu Phe Phe Ile
    245         250         255
Pro Ala Met Cys Ile Tyr Leu Gln Pro Pro Ser Gly Asn Ser Gln Asp
    260         265         270
Gln Gly Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu

```

275	280	285
Asn Pro Leu Ile Tyr Thr	Leu Arg Asn Lys Val	Val Arg Gly Ala Val
290	295	300
Lys Arg Leu Met Gly Trp	Glu	
305	310	

<210> 1814  
 <211> 88  
 <212> PRT  
 <213> Unknown (H38g732 protein)

<220>  
 <223> Synthetic construct

<400> 1814

Phe	Ile	His	Ala	Leu	Ser	Val	Ile	Glu	Ser	Ile	Ile	Val	Leu	Ala	Met
1				5					10					15	
Ala	Phe	Glu	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Cys	His	Ala	Glu
		20						25					30		
Val	Leu	Asn	Ser	Thr	Val	Thr	Ala	His	Ile	Gly	Ile	Val	Ala	Gly	Val
		35					40					45			
Arg	Gly	Ser	Leu	Phe	Phe	Ser	Pro	Leu	Ala	Leu	Leu	Ile	Lys	Thr	Leu
	50					55					60				
Gly	Leu	Cys	His	Ser	Tyr	Val	Leu	Ser	His	Ser	Tyr	Ser	Leu	His	Gln
65					70					75					80
Asp	Val	Ala	Asn	Leu	Ser	Tyr	Ala								
				85											

<210> 1815  
 <211> 159  
 <212> PRT  
 <213> Unknown (H38g733 protein)

<220>  
 <223> Synthetic construct

<400> 1815

Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Leu	Thr	Val	Met	Asn	Pro	Gln
1				5					10					15	
Leu	Cys	Leu	Trp	Leu	Val	Leu	Ala	Cys	Trp	Cys	Gly	Gly	Phe	Ile	His
		20						25					30		
Ser	Ile	Met	Gln	Val	Ile	Leu	Val	Ile	Gln	Leu	Pro	Phe	Cys	Gly	Pro
		35					40					45			
Asn	Glu	Leu	Asp	Asn	Phe	Tyr	Cys	Asp	Val	Leu	Gln	Ile	Ile	Lys	Leu
	50					55					60				
Ala	Cys	Met	Asp	Thr	Tyr	Val	Val	Glu	Val	Leu	Val	Ile	Ala	Asn	Ser
65					70					75					80
Gly	Leu	Leu	Ser	Leu	Val	Cys	Phe	Leu	Val	Leu	Leu	Phe	Ser	Tyr	Ala
			85						90					95	
Ile	Ile	Leu	Ile	Thr	Leu	Arg	Thr	Arg	Phe	Cys	Gln	Gly	Gln	Asn	Lys
		100					105						110		
Val	Leu	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Ile	Phe
	115						120					125			
Val	Pro	Cys	Val	Phe	Ile	Tyr	Leu	Arg	Pro	Phe	Cys	Ser	Phe	Ser	Val
	130					135					140				
Asp	Lys	Ile	Phe	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Met	Leu	
145					150					155					

<210> 1816  
 <211> 316  
 <212> PRT

<213> Unknown (H38g734 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1816

```

Met Ser Ala Pro Asn His Ser Thr Ala Asn His Asp Met Phe Val Leu
 1          5          10          15
Ile Gly Val Pro Gly Leu Lys Glu Leu His Val Trp Ile Ser Ile Pro
          20          25          30
Phe Cys Leu Met Tyr Leu Val Ala Val Ser Gly Asn Gly Leu Leu Val
          35          40          45
Cys Val Val Ala Val Glu His Ser Leu His Glu Pro Met Tyr Leu Phe
          50          55          60
Leu Ser Met Leu Ala Phe Trp Asp Leu Ile Leu Ser Thr Ser Ala Val
          65          70          75          80
Pro Lys Ala Leu Ser Ile Phe Trp Phe Asp Asp Val Asp Ile Ser Phe
          85          90          95
Gly Gly Cys Val Thr Gln Leu Phe Phe Met His Phe Ala Phe Val Ala
          100          105          110
Glu Ser Gly Ile Leu Leu Thr Met Ala Phe Asp Arg Tyr Val Ala Ile
          115          120          125
Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Ser His Ser Val Ile Gly
          130          135          140
Lys Ile Gly Gly Val Val Phe Arg Ser Phe Ala Thr Val Phe Ser
          145          150          155          160
Ile Val Phe Leu Val Lys Arg Leu Pro Phe Cys Arg Thr Asn Ile Ile
          165          170          175
Ala His Thr Phe Cys Glu His Met Gly Leu Ala Lys Leu Gly Cys Ser
          180          185          190
Glu Ile Thr Ile Asn Ile Trp Tyr Gly Ile Ser Val Pro Leu Leu Ser
          195          200          205
Val Thr Leu Asp Met Val Thr Ile Val Ile Ser Xaa Gly Leu Ile Val
          210          215          220
Gln Ala Val Phe Arg Leu Pro Ser Leu Gly Ala Trp Met Lys Ala Leu
          225          230          235          240
Ser Thr Cys Gly Ser His Gly Ser Val Ile Leu Met Phe Cys Leu Pro
          245          250          255
Gly Ile Phe Thr Val Ile Val Gln Arg Phe Ala Xaa Lys Phe Pro Lys
          260          265          270
Tyr Val His Ile Leu Leu Ala Asn Leu Tyr Val Leu Val Pro Pro Met
          275          280          285
Met Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Gln Lys Gly
          290          295          300
Val Ala Leu Val Phe Ser Pro Lys Gly Lys Cys Cys
          305          310          315

```

<210> 1817

<211> 364

<212> PRT

<213> Unknown (H38g735 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(364)

<223> Xaa = Any Amino Acid

<400> 1817

```

Met Pro Leu Thr Asn Glu Ser His Pro Glu Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ala Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Thr Ser Leu Leu
 20          25          30
Ile Met Tyr Pro Ile Ala Val Met Gly Asn Ile Thr Ile Ile Leu Met
 35          40          45
Ser Arg Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Thr
 50          55          60
Asn Leu Ser Phe Leu Asp Met Cys Tyr Thr Thr Ser Ile Val Pro Gln
 65          70          75          80
Met Leu Phe Asn Leu Gly Ser Ser Lys Lys Thr Ile Ser Tyr Met Gly
 85          90          95
Cys Ala Val Gln Leu Tyr Phe Phe His Ile Met Gly Gly Thr Glu Cys
 100         105         110
Leu Leu Leu Ala Ile Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Arg
 115         120         125
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Arg Val Cys Ile His Xaa
 130         135         140
Phe Pro Pro Cys Trp Leu Ile Gly Ile Ile Tyr Ala Val Ser Glu Ala
 145         150         155         160
Thr Ala Thr Leu Gln Leu Pro Leu Cys Gly Ser Asn Lys Leu Asp His
 165         170         175
Leu Val Cys Glu Ile Pro Val Leu Ile Lys Ile Ala Cys Gly Glu Lys
 180         185         190
Gly Ser Asn Glu Leu Thr Leu Ser Val Val Cys Ile Phe Met Leu Ala
 195         200         205
Val Pro Leu Cys Leu Ile Leu Ala Ser Tyr Ala Ser Ile Gly Ser Ala
 210         215         220
Val Phe Lys Ile Lys Ser Ser Lys Gly Arg Lys Lys Ala Phe Gly Thr
 225         230         235         240
Cys Ser Ser His Leu Ile Val Val Phe Leu Phe Tyr Gly Pro Ala Ile
 245         250         255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Ile Ser Arg Asp Gln Pro Lys
 260         265         270
Phe Met Ala Leu Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Phe
 275         280         285
Ile Tyr Thr Leu Arg Asn Lys Asn Val Lys Gly Ala Leu Arg Asn Leu
 290         295         300
Val Arg Ser Ile Phe Ser Phe Lys Xaa Xaa Trp Val Asp Ile Thr Met
 305         310         315         320
Lys Leu Leu Asn Ser Xaa Ser Arg Leu Leu Trp Phe Tyr Leu Thr Asn
 325         330         335
Ser Cys Leu Ile Ile Lys Tyr Arg Phe Thr Cys Ser Cys Lys Ile Cys
 340         345         350
Tyr Val Ser Glu Thr Leu Cys Lys His Val Gln Gln
 355         360

```

<210> 1818

<211> 166

<212> PRT

<213> Unknown (H38g736 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(166)

<223> Xaa = Any Amino Acid



&lt;400&gt; 1818

```

Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr Ile Leu Leu Ala Met
 1           5           10           15
Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala
          20           25           30
Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly Ile Val Ala Val Val
          35           40           45
Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu Leu Ile Lys Arg Leu
          50           55           60
Ala Phe Cys His Ser Asn Val Leu Ser His Ser Tyr Cys Val His Gln
          65           70           75           80
Asp Val Leu Lys Leu Ala Tyr Ala Asp Thr Leu Pro Asn Val Val Tyr
          85           90           95
Gly Leu Thr Ala Ile Leu Leu Ala Met Gly Val Asp Ala Met Phe Ile
          100          105          110
Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val Leu Gln Leu Pro Ser
          115          120          125
Lys Ser Xaa Arg Ala Lys Ala Phe Gly Thr Cys Val Val His Ile Gly
          130          135          140
Val Val Leu Gly Leu Tyr Val Pro Leu Ile Gly Thr Ser Ser Gly His
          145          150          155          160
Arg Phe Gly Asn Lys Leu
          165

```

&lt;210&gt; 1819

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g737 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1819

```

Met Met Ile Lys Lys Asn Ala Ser Ser Glu Asp Phe Phe Ile Leu Leu
 1           5           10           15
Gly Phe Ser Asn Trp Pro Gln Leu Glu Val Val Leu Phe Val Val Ile
          20           25           30
Leu Ile Phe Tyr Leu Met Thr Leu Thr Gly Asn Leu Phe Ile Ile Ile
          35           40           45
Leu Ser Tyr Val Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
          50           55           60
Ser Asn Leu Ser Phe Leu Asp Leu Cys His Thr Thr Ser Ser Ile Pro
          65           70           75           80
Gln Leu Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Ala
          85           90           95
Gly Cys Met Val Gln Leu Tyr Phe Val Leu Ala Leu Gly Ile Ala Glu
          100          105          110
Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Val Cys
          115          120          125
Arg Pro Leu His Tyr Thr Val Leu Met His Pro Arg Phe Cys His Leu
          130          135          140
Leu Ala Ala Ala Ser Trp Val Ile Gly Phe Thr Ile Ser Ala Leu His
          145          150          155          160
Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Leu Val Asp
          165          170          175
His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys Val Asp
          180          185          190
Thr His Ala Asn Glu Leu Thr Leu Met Val Met Ser Ser Ile Phe Val
          195          200          205
Leu Ile Pro Leu Ile Leu Ile Leu Thr Ala Tyr Gly Ala Ile Ala Arg

```

210	215	220
Ala Val Leu Ser Met Gln Ser Thr Thr Gly Leu Gln Lys Val Phe Arg		
225	230	235
Thr Cys Gly Ala His Leu Met Val Val Ser Leu Phe Phe Ile Pro Val		240
	245	250
Met Cys Met Tyr Leu Gln Pro Pro Ser Glu Asn Ser Pro Asp Gln Gly		255
	260	265
Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu Asn Pro		270
	275	280
Leu Ile Tyr Thr Leu Arg Asn Lys His Val Lys Gly Ala Ala Lys Arg		285
	290	295
Leu Leu Gly Trp Glu Trp Gly Lys		300
305	310	

&lt;210&gt; 1820

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g738 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1820

Arg Pro Leu Cys Ala Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu	
1	5
Pro Ala Leu Leu Lys Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu	10
	20
Asn Gln Met Phe Ala Ala Arg Val Val Ile Leu Leu Arg Gly Val Ala	25
	35
Val Ile Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met	40
	50
Arg Phe Asn Gly Gly Arg Arg Ala Val Gly Thr Cys Gly Ser His	55
65	70
Leu Thr Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu	75
	85
Gln Pro Ala Gln Arg Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu	90
	100
Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu Ile Tyr Thr Leu	105
	115
Arg Asn Lys Lys Met Lys Gly Ala Pro Arg Arg Leu Leu Arg Ser Leu	120
	130
Gly Arg Gly Gln Ala Gly Gln	135
145	150

&lt;210&gt; 1821

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g739 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(341)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1821

Met Met Glu Lys Val Asn Ala Ser Ser Glu Gly Tyr Phe Ile Leu Val	
1	5
Gly Phe Ser Asn Trp Pro Tyr Leu Glu Val Val Leu Phe Val Val Ile	10
	20
	25
	30

```

Leu Ile Phe Cys Leu Met Thr Leu Ile Gly Asn Leu Phe Ile Ile Ile
    35              40              45
Leu Thr Tyr Leu Asp Ser His Leu His Thr Pro Leu Tyr Phe Phe Leu
    50              55              60
Ser Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Ser Ile Pro
    65              70              75              80
Gln Leu Leu Val Ser Leu Trp Gly Val Glu Lys Thr Ile Ser Tyr Ala
    85              90              95
Gly Cys Met Val Gln Leu Tyr Phe Phe Leu Thr Leu Gly Thr Thr Glu
    100             105             110
Cys Val Leu Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Ala Val Cys
    115             120             125
Arg Pro Leu His Tyr Thr Val Leu Met His Ser Arg Phe Cys His Leu
    130             135             140
Leu Ala Val Ala Ser Trp Val Ser Gly Phe Thr Asn Pro Ala Leu His
    145             150             155             160
Ser Ser Phe Thr Phe Trp Val Pro Leu Cys Gly His Arg Gln Ile Asp
    165             170             175
His Phe Phe Cys Glu Val Pro Ala Leu Leu Xaa Leu Ser Phe Val Asn
    180             185             190
Thr Arg Glu Asn Lys Leu Thr Leu Met Ile Thr Ser Ser Ile Phe Val
    195             200             205
Leu Leu Leu Leu Thr Leu Ile Phe Thr Ser Tyr Gly Ala Ile Ala Gln
    210             215             220
Ala Val Leu Arg Met Gln Ser Thr Thr Gly Leu Gln Lys Val Phe Gly
    225             230             235             240
Thr Cys Gly Ala His His Met Val Val Ser Leu Phe Phe Ile Pro Ala
    245             250             255
Met Cys Met Tyr Leu Gln Pro Pro Ser Gly Asn Ser Gln Asp Gln Gly
    260             265             270
Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ser Leu Asn Pro
    275             280             285
Leu Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Gly Val Val Lys Arg
    290             295             300
Leu Arg Gly Trp Glu Xaa Ala Cys Val Cys Val Ile Leu Thr Ile Xaa
    305             310             315             320
Trp Ser Leu Ser Ser Gln Xaa Phe Ile His Leu Phe Ile Tyr Gln Pro
    325             330             335
Phe Phe Tyr Ser Leu
    340

```

&lt;210&gt; 1822

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g740 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(219)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1822

```

Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val
    1              5              10              15
Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr
    20              25              30
Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Asp Ser Ile Leu
    35              40              45
Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Lys Cys His Pro Leu

```

50	55	60
Tyr His Ser Ala Ile Met Asn Pro Cys Leu Cys Gly Phe Leu Leu Leu		
65	70	75
Leu Ser Ile Phe Phe Ser Leu Ser Leu Leu Asp Ala Gln Leu Tyr Asn		80
	85	90
Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn		95
	100	105
Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr		110
	115	120
Phe Asn Asn Asn Ile Ile Leu Tyr Phe Pro Asp Ala Ile Phe Gly Phe		125
	130	135
Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile Val Ser Ser		140
	145	150
Ile Leu Arg Val Ser Ser Ser Gly Gly Arg Tyr Lys Ala Leu Ser Thr		155
	165	170
Cys Gly Ser His Val Ser Val Val Cys Xaa Val Tyr Gly Thr Gly Val		175
	180	185
Gly Gly Tyr Leu Ser Ser Asp Val Ser Phe Ser Pro Arg Lys Gly Ala		190
	195	200
Val Ala Ser Val Met Tyr Ala Val Val Thr Pro		205
	210	215

&lt;210&gt; 1823

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g741 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1823

Met Ile Ile Ile Cys Asn Asp Ser His Ser Asp Phe Ile Leu Leu Gly	
1	5
Phe Ser Asn Lys Pro His Leu Glu Lys Ile Leu Phe Val Ile Ile Phe	10
	20
Ile Phe Tyr Phe Leu Thr Leu Ala Gly Asn Met Val Ile Val Leu Val	25
	30
Ser Leu Lys Asp Pro Lys Leu His Ile Pro Met Tyr Phe Phe Leu Ser	35
	40
Asn Leu Ser Leu Val Asp Leu Cys Leu Thr Ser Cys Val Pro Gln	45
	50
Met Leu Ile Asn Phe Trp Gly Pro Glu Lys Thr Ile Ser Tyr Ile Gly	55
	60
Cys Ala Ile Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Tyr	65
	70
Val Leu Leu Val Val Met Ala Val Asp Cys Tyr Val Ala Val Cys His	75
	80
Pro Leu Gln Asn Thr Met Ile Met His Pro Lys Leu Cys Leu Gln Leu	85
	90
Ala Ile Leu Ala Trp Gly Thr Gly Leu Ala Gln Ser Leu Ile Gln Ser	95
	100
Pro Ala Thr Leu Arg Leu Pro Phe Cys Ser Gln Arg Met Val Asp Asp	105
	110
Val Val Cys Glu Val Pro Ala Leu Ile Gln Leu Ser Ser Thr Asp Thr	115
	120
Thr Tyr Ser Glu Ile Gln Met Ser Ile Ala Ser Val Val Leu Leu Val	125
	130
	135
	140
	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205

```

Met Pro Leu Ile Ile Ile Leu Ser Ser Ser Gly Ala Ile Ala Lys Ala
  210                215                220
Val Leu Arg Ile Lys Ser Thr Ala Gly Gln Lys Lys Ala Phe Gly Thr
  225                230                235                240
Cys Ile Ser His Leu Leu Val Val Ser Leu Phe Tyr Gly Thr Val Thr
                245                250                255
Gly Val Tyr Leu Gln Pro Lys Asn His Tyr Pro His Glu Trp Gly Lys
                260                265                270
Phe Leu Thr Leu Phe Tyr Thr Val Val Thr Pro Thr Leu Asn Pro Leu
                275                280                285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Ile Arg Leu
                290                295                300
Gly Arg Arg Thr Trp Asp Ser Gln Asn Asn Xaa Gln Gly Xaa His Met
  305                310                315                320
Phe Thr Phe Ala

```

&lt;210&gt; 1824

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g742 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(218)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1824

```

Leu Pro Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met Met Val
  1                5                10                15
Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr
                20                25                30
Gln Ile Pro Phe Phe Val Leu Phe Val Cys Ile Asp Asp Met Leu Leu
  35                40                45
Thr Val Met Ala Tyr Asn Xaa Phe Val Ala Ile Cys His Pro Leu His
  50                55                60
Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe Leu Val Leu Val
  65                70                75                80
Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val
                85                90                95
Leu Gln Gln Leu Thr Phe Phe Lys Asn Val Glu Ile Ser Xaa Phe Phe
                100                105                110
Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser Ile
                115                120                125
Ile Asn Asn Ile Leu Cys Ile Leu Asp Ile Pro Ile Phe Gly Phe Leu
  130                135                140
Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Ser Ser Ile
  145                150                155                160
Pro Arg Ile Pro Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys
                165                170                175
Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Leu Val
                180                185                190
Gly Tyr Leu Ser Ser Ala Val Leu Pro Ser Pro Arg Lys Ser Met Val
  195                200                205
Ala Ser Val Met Tyr Thr Val Val Thr Pro
  210                215

```

&lt;210&gt; 1825

&lt;211&gt; 124

<212> PRT  
 <213> Unknown (H38g743 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(124)  
 <223> Xaa = Any Amino Acid

<400> 1825  
 Phe Leu Leu Xaa Ala Asn Tyr Ser Ala Glu Glu Arg Phe Leu Leu Leu  
 1 5 10 15  
 Gly Phe Ser Asp Trp Pro Ser Leu Gln Pro Val Leu Phe Ala Leu Val  
 20 25 30  
 Leu Leu Cys Tyr Leu Leu Thr Leu Thr Gly Asn Ser Ala Leu Val Leu  
 35 40 45  
 Leu Ala Glu Lys Asp Pro Arg Leu Gln Thr Pro Arg Cys Met Asn Tyr  
 50 55 60  
 Phe Leu Cys His Leu Ala Leu Val Asp Ala Gly Phe Thr Thr Ser Val  
 65 70 75 80  
 Val Pro Pro Leu Leu Ala Asn Leu Arg Gly Pro Ala Leu Leu Xaa Pro  
 85 90 95  
 Arg Ser His Cys Thr Ala Gln Leu Cys Ala Ser Leu Ala Leu Gly Ser  
 100 105 110  
 Ala Glu Cys Val Leu Leu Ala Val Met Ala Leu Glu  
 115 120

<210> 1826  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g744 protein)

<220>  
 <223> Synthetic construct

<400> 1826  
 Ile Leu Glu Ile Ser Phe Thr Thr Val Ser Ile Pro Lys Phe Leu Gly  
 1 5 10 15  
 Asn Ile Ile Ser Gly Asp Lys Thr Ile Ser Phe Asn Asn Cys Ile Val  
 20 25 30  
 Gln Leu Phe Phe Phe Ile Leu Leu Gly Val Thr Glu Phe Tyr Leu Leu  
 35 40 45  
 Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His  
 50 55 60  
 Tyr Leu Ser Ile Met Asn Arg Arg Val Cys Thr Leu Leu Val Phe Thr  
 65 70 75 80  
 Ser Trp Leu Val Ser Phe Leu Ile Ile Phe Pro Ala Leu Met Leu Leu  
 85 90 95  
 Leu Lys Leu Asp Tyr Cys Arg Ser Asn Ile Ile Asp His Phe Thr Cys  
 100 105 110  
 Asp Tyr Phe Pro Leu Leu Gln Leu Ala Cys Ser Asp Thr Lys Phe Leu  
 115 120 125  
 Glu Val Met Gly Phe Ser Cys Ala Ala Phe Thr Leu Met Phe Thr Leu  
 130 135 140  
 Ala Leu Ile Phe Leu Ser Tyr Ile Tyr Ile Ile Arg Thr Ile Leu Arg  
 145 150 155 160  
 Ile Pro Ser Thr Ser Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser Ser  
 165 170 175  
 His Met Val Val Ile Ser Ile Ser Tyr Gly Ser Cys Ile Phe Met Tyr  
 180 185 190

Ile Lys Pro Ser Ala Lys Asp Arg Val Ser Leu Ser Lys Gly Val Ala  
           195                          200                          205  
 Ile Leu Asn Thr Ser Val Ala Pro  
           210                          215

<210> 1827  
 <211> 219  
 <212> PRT  
 <213> Unknown (H38g745 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(219)  
 <223> Xaa = Any Amino Acid

<400> 1827  
 Phe Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
   1                          5                          10                          15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
           20                          25                          30  
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu  
           35                          40                          45  
 Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu  
           50                          55                          60  
 Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe Leu Asp Leu  
   65                          70                          75                          80  
 Leu Ser Phe Phe Phe Ser Leu Ser Leu Leu Asp Ser Gln Leu His Asn  
           85                          90                          95  
 Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile Pro Asn  
           100                          105                          110  
 Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr  
           115                          120                          125  
 Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe  
   130                          135                          140  
 Leu Gln Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val Ser Ser  
  145                          150                          155                          160  
 Ile Leu Arg Val Ser Ser Ser Gly Gly Asn Tyr Lys Ala Phe Ser Thr  
           165                          170                          175  
 Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr Gly Val  
           180                          185                          190  
 Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala  
           195                          200                          205  
 Val Ala Ser Val Met Tyr Met Val Val Thr Pro  
           210                          215

<210> 1828  
 <211> 268  
 <212> PRT  
 <213> Unknown (H38g746 protein)

<220>  
 <223> Synthetic construct

<400> 1828  
 Met Met Ala Leu Ile Phe Thr Asp Ser His Leu Gln Ser Pro Met Tyr  
   1                          5                          10                          15  
 Phe Phe Leu Asn Val Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val  
           20                          25                          30  
 Val Thr Pro Lys Leu Leu Val Asn Phe Leu Val Ser Asp Lys Ser Ile

```

      35      40      45
Ser Phe Glu Gly Cys Val Val Gln Leu Ala Phe Phe Val Val His Val
  50      55      60
Thr Ala Glu Ser Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Phe Leu
  65      70      75      80
Ala Ile Cys Gln Pro Leu His Tyr Gly Ser Ile Met Thr Arg Gly Thr
      85      90      95
Cys Leu Gln Leu Val Ala Val Ser Tyr Ala Phe Gly Gly Ala Asn Ser
      100      105      110
Ala Ile Gln Thr Gly Asn Val Phe Ala Leu Pro Phe Cys Gly Pro Asn
      115      120      125
Gln Leu Thr His Tyr Tyr Cys Asp Ile Pro Pro Leu Leu His Leu Ala
      130      135      140
Cys Ala Asn Thr Ala Thr Ala Arg Val Val Leu Tyr Val Phe Ser Ala
      145      150      155      160
Leu Val Thr Leu Leu Pro Ala Ala Val Ile Leu Thr Ser Tyr Cys Leu
      165      170      175
Val Leu Val Ala Ile Gly Arg Met Arg Ser Val Ala Gly Arg Glu Lys
      180      185      190
Asp Leu Ser Thr Cys Ala Ser His Phe Leu Ala Ile Ala Ile Phe Tyr
      195      200      205
Gly Thr Val Val Phe Thr Tyr Val Gln Pro His Gly Ser Thr Asn Asn
      210      215      220
Thr Asn Gly Gln Val Val Ser Val Phe Tyr Thr Ile Ile Ile Pro Met
      225      230      235      240
Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
      245      250      255
Leu Gln Arg Lys Leu Gln Val Asn Ile Phe Pro Gly
      260      265

```

&lt;210&gt; 1829

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g747 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1829

```

Met Asp Leu Gly Asn Gln Thr Arg Val Ser Glu Phe Leu Leu Leu Gly
  1      5      10      15
Phe Ser Gln Asp Leu Glu Asp Gln Gln Leu Leu Phe Ala Leu Phe Leu
      20      25      30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      35      40      45
Ile Ser Ser Asp Ser His Leu His Thr Pro Arg Tyr Phe Phe Leu Ser
      50      55      60
Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Thr Ala Val Pro Lys
      65      70      75      80
Met Leu Val Asn Ile Gln Val Gln Ser Asn Ala Ile Ser Tyr Ala Asp
      85      90      95
Cys Ile Ala Gln Met Tyr Phe Phe Met Val Phe Gly Gly Met Asp Thr
      100      105      110
Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
      115      120      125
Pro Leu Tyr Tyr Cys Val Thr Arg Asn Pro Cys Leu Cys Gly Leu Leu
      130      135      140

```



Val Leu Val Ser Trp Phe Leu Ser Leu Ser Tyr Ser Leu Ile Gln Ser  
 145 150 155 160  
 Leu Leu Val Leu Arg Val Ser Phe Cys Thr Ser Xaa Val Ile Gln His  
 165 170 175  
 Phe Tyr Cys Glu Leu Ala Gln Val Leu Arg Leu Thr Cys Ser Asp Thr  
 180 185 190  
 His Val Asn Tyr Ile Leu Leu Tyr Val Val Ala Gly Leu Leu Asp Phe  
 195 200 205  
 Val Pro Phe Ser Gly Ile Leu Phe Ser Tyr Thr Gln Ile Val Ser Tyr  
 210 215 220  
 Ile Leu Arg Ile Ser Ser Thr Asp Gly Lys His Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Phe Val Val Ser Leu Phe Tyr Gly Thr Gly Leu  
 245 250 255  
 Gly Val Tyr Leu Ser Ser Asn Ala Ser Ser Ser Trp Trp Gly Met  
 260 265 270  
 Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Cys Leu Arg Asn Arg Asp Ile Lys Arg Thr Leu Glu Thr Leu  
 290 295 300  
 Leu Gly Arg Met Leu Tyr Ala Gln Xaa Arg Gly His  
 305 310 315

&lt;210&gt; 1830

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g748 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1830

Met Glu Asn Cys Thr Glu Val Thr Lys Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Ser Val Pro Glu Leu Gln Ile Pro Leu Phe Ile Leu Phe Thr Phe Ile  
 20 25 30  
 Tyr Leu Leu Thr Leu Cys Gly Asn Leu Gly Met Met Leu Leu Ile Leu  
 35 40 45  
 Met Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met  
 65 70 75 80  
 Ala Gly Phe Leu Arg Gly Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Val Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Tyr Leu  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Thr Thr Thr Met Thr Ala Ser Val Gly Ala Cys Leu Ala Leu  
 130 135 140  
 Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Phe His Ile Gly Gly  
 145 150 155 160  
 Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Phe Phe  
 165 170 175  
 Cys Asp Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Lys His Thr  
 180 185 190  
 Ser Glu Val Ile Leu Val Phe Thr Ser Ser Phe Asn Ile Phe Phe Val  
 195 200 205  
 Leu Leu Val Ile Phe Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Leu  
 210 215 220  
 Lys Met His Ser Ala Lys Gly His Gln Lys Ala Leu Ser Thr Cys Ala

```

225          230          235          240
Ser His Phe Thr Ala Val Ser Val Phe Tyr Gly Thr Val Ile Phe Ile
          245          250          255
Tyr Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Met Ala
          260          265          270
Ser Val Phe Tyr Ala Met Ile Ile Pro Met Leu Asn Pro Val Val Tyr
          275          280          285
Ser Leu Arg Asn Arg Glu Val Gln Asn Ala Phe Lys Lys Val Leu Arg
          290          295          300
Arg Gln Lys Phe Leu
305

```

&lt;210&gt; 1831

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g749 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1831

```

Met His Thr Met Val Glu Asn His Thr Gln Val Thr Trp Phe Arg Leu
1          5          10          15
Leu Gly Leu Thr Glu Gln Glu Glu Leu Arg Gly Ile Leu Phe Val Leu
          20          25          30
Phe Leu Leu Met His Ser Val Thr Val Met Gly Asn Leu Gly Met Ile
          35          40          45
Thr Leu Ile His Ala Asp Pro Gln Leu His Thr Pro Met Tyr Phe Phe
          50          55          60
Leu Ser Val Leu Ser Phe Ile Asp Ser Ser Phe Ser Thr Val Asp Thr
          65          70          75          80
Pro Arg Leu Leu Glu Ser Phe Leu Ile Ser Ser Gln Ser Ile Ser Phe
          85          90          95
Ala Gly Cys Met Val Gln Met Ala Leu Met Ile Leu His Gly Thr Ala
          100          105          110
Glu Cys Leu Leu Leu Ala Ile Met Ala Tyr Asp Arg Phe Thr Ala Ile
          115          120          125
Cys His Pro Leu Leu Tyr His Thr Ile Ile Ser Gln Cys Leu Cys Ala
          130          135          140
Leu Leu Val Val Thr Cys Tyr Thr Val Ser Val Ala Asn Ser Ala Leu
          145          150          155          160
Leu Thr Gly Cys Ile Phe Lys Leu Pro Tyr Cys Gly Pro Asn Val Ile
          165          170          175
Asn His Tyr Phe Cys Asp Ile Pro Pro Val Leu Gln Leu Ala Gly Ala
          180          185          190
Asp Thr Tyr Glu Val Glu Thr Ile Ile Phe Ser Leu Cys Ala Leu Leu
          195          200          205
Ile Leu Phe Thr Ile Thr Ile Ile Pro Val Ser Tyr Ala Tyr Ile Leu
          210          215          220
Val Thr Ile Cys Arg Met Arg Ser Leu Gln Ala Gln Ser Lys Ala Leu
          225          230          235          240
Ser Thr Cys Ala Ser His Leu Thr Ile Ile Cys Leu Phe Tyr Ser Thr
          245          250          255
Ile Thr Phe Met Tyr Ala Gln Pro Ser Ser His Asn Ser Met Glu His
          260          265          270
Asn Lys Val Met Ser Val Phe Tyr Thr Val Val Ile Arg Arg Leu Asn
          275          280          285
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Tyr Ala Leu Lys
          290          295          300
Arg Arg Cys Leu Cys Lys Leu Ser Ser
          305          310

```

<210> 1832  
 <211> 314  
 <212> PRT  
 <213> Unknown (H38g750 protein)

<220>  
 <223> Synthetic construct

<400> 1832  
 Met Glu Asn Lys Thr Glu Val Thr Gln Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asn Asp Ser Glu Leu Gln Val Pro Leu Phe Ile Thr Phe Pro Phe Ile  
 20 25 30  
 Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Ile Ile Val Leu Ile Phe  
 35 40 45  
 Trp Asp Ser Cys Leu His Asn Pro Met Tyr Phe Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr Pro Ile Val Met  
 65 70 75 80  
 Ala Gly Phe Leu Ile Glu Asp Lys Val Ile Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Ala Gln Met Tyr Ile Phe Val Ala Phe Ala Thr Val Glu Asn Tyr Leu  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Thr Thr Thr Met Thr Thr Thr Val Cys Ala Arg Leu Ala Ile  
 130 135 140  
 Gly Ser Tyr Leu Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asp  
 145 150 155 160  
 Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Glu Val His His Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Ala Val Met Val Leu Ser Cys Ser Asp Arg His Ile  
 180 185 190  
 Ser Glu Leu Val Leu Ile Tyr Val Val Ser Phe Asn Ile Phe Ile Ala  
 195 200 205  
 Leu Leu Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Ile Thr Ile Leu  
 210 215 220  
 Lys Met His Ser Ala Ser Val Tyr Gln Lys Pro Leu Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Phe Ile Ala Val Gly Ile Phe Tyr Gly Thr Ile Ile Phe Met  
 245 250 255  
 Tyr Leu Gln Pro Ser Ser His Ser Met Asp Thr Asp Lys Met Ala  
 260 265 270  
 Pro Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Val Val Glu  
 290 295 300  
 Lys Ala Lys Leu Ser Val Gly Trp Ser Val  
 305 310

<210> 1833  
 <211> 312  
 <212> PRT  
 <213> Unknown (H38g751 protein)

<220>  
 <223> Synthetic construct

<400> 1833  
 Met Asn Asn Ser Asp Thr Arg Ile Ala Gly Cys Phe Leu Thr Gly Ile

1	5	10	15
Pro Gly Leu Glu Gln Leu His Ile Trp Leu Ser Ile Pro Phe Cys Ile			
20	25	30	
Met Tyr Ile Ala Ala Leu Glu Gly Asn Gly Ile Leu Ile Cys Val Ile			
35	40	45	
Leu Ser Gln Ala Ile Leu His Glu Pro Met Tyr Ile Phe Leu Ser Met			
50	55	60	
Leu Ala Ser Ala Asp Val Leu Leu Ser Thr Thr Thr Met Pro Lys Ala			
65	70	75	80
Leu Ala Asn Leu Trp Leu Gly Tyr Ser His Ile Ser Phe Asp Gly Cys			
85	90	95	
Leu Thr Gln Lys Phe Phe Ile His Phe Leu Phe Ile His Ser Ala Val			
100	105	110	
Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu			
115	120	125	
Arg Tyr Val Thr Ile Leu Thr Ser Lys Val Ile Gly Lys Ile Val Thr			
130	135	140	
Ala Thr Leu Ser Arg Ser Phe Ile Ile Met Phe Pro Ser Ile Phe Leu			
145	150	155	160
Leu Glu His Leu His Tyr Cys Gln Ile Asn Ile Ile Ala His Thr Phe			
165	170	175	
Cys Glu His Met Gly Ile Ala His Leu Ser Cys Ser Asp Ile Ser Ile			
180	185	190	
Asn Val Trp Tyr Gly Leu Ala Ala Leu Leu Ser Thr Gly Leu Asp			
195	200	205	
Ile Met Leu Ile Thr Val Ser Tyr Ile His Ile Leu Gln Ala Val Phe			
210	215	220	
Arg Leu Leu Ser Gln Asp Ala Arg Ser Lys Ala Leu Ser Thr Cys Gly			
225	230	235	240
Ser His Ile Cys Val Ile Leu Leu Phe Tyr Val Pro Ala Leu Phe Ser			
245	250	255	
Val Phe Ala Tyr Arg Phe Gly Gly Arg Ser Ile Pro Cys Tyr Val His			
260	265	270	
Ile Leu Leu Ala Ser Leu Tyr Val Val Ile Pro Pro Met Leu Asn Pro			
275	280	285	
Val Ile Tyr Gly Val Arg Thr Lys Pro Ile Leu Glu Gly Ala Lys Gln			
290	295	300	
Met Phe Ser Asn Leu Ala Lys Gly			
305	310		

&lt;210&gt; 1834

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g752 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1834

Ser Ile Leu Phe Leu Tyr Phe Ser Leu Leu Gln Ala Ser Ser Asp Phe			
1	5	10	15
Leu Ile Thr Leu Met Lys Asn Cys Thr Glu Val Thr Glu Phe Ile Leu			
20	25	30	
Leu Gly Leu Thr Asn Ala Pro Glu Leu Gln Val Pro Leu Leu Ile Met			
35	40	45	
Phe Thr Leu Ile Tyr Leu Val Asn Val Val Gly Asn Leu Gly Met Ile			
50	55	60	
Val Leu Ile Val Trp Asp Ile His Leu His Thr Pro Met Tyr Phe Phe			
65	70	75	80
Leu Ser His Leu Ser Leu Val Asp Phe Cys Tyr Ser Ser Ala Val Thr			
85	90	95	

Pro Thr Val Ile Ala Gly Leu Val Ile Gly Asp Lys Val Ile Ser Tyr  
 100 105 110  
 Asn Ala Cys Ala Ala Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val  
 115 120 125  
 Glu Asn Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Asp Ala Val  
 130 135 140  
 Cys Lys Pro Leu His Tyr Thr Thr Thr Met Thr Thr Ser Val Cys Ala  
 145 150 155 160  
 Cys Leu Ala Ile Ile Cys Tyr Val Cys Gly Phe Leu Asn Ala Ser Ile  
 165 170 175  
 His Ile Gly Glu Thr Phe Ser Leu Ser Phe Cys Met Ser Asn Glu Val  
 180 185 190  
 His Cys Phe Phe Cys Asp Val Pro Pro Val Met Ala Leu Ser Cys Cys  
 195 200 205  
 Asp Arg His Val Asn Glu Leu Val Leu Ile Tyr Val Ala Ser Phe Asn  
 210 215 220  
 Ile Phe Ser Ala Ile Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe  
 225 230 235 240  
 Ile Thr Ile Leu Lys Met His Ser Ala Ser Gly Tyr Gln Lys Ala Leu  
 245 250 255  
 Ser Thr Cys Ala Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr  
 260 265 270  
 Ile Ile Phe Met Tyr Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr  
 275 280 285  
 Asp Lys Leu Ala Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Asn  
 290 295 300  
 Pro Leu Val Tyr Ser Leu Arg Asn Asn Glu Val Lys Ser Ala Phe Lys  
 305 310 315 320  
 Lys Val Ile Glu Lys Ala Lys Leu Ser Leu Leu Leu  
 325 330

&lt;210&gt; 1835

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g753 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1835

Met Ser Asp Ser Asn Leu Ser Asp Asn His Leu Pro Asp Thr Phe Phe  
 1 5 10 15  
 Leu Thr Gly Ile Pro Gly Leu Glu Ala Ala His Phe Trp Ile Ala Ile  
 20 25 30  
 Pro Phe Cys Ala Met Tyr Leu Val Ala Leu Val Gly Asn Ala Ala Leu  
 35 40 45  
 Ile Leu Val Ile Ala Met Asp Asn Ala Leu His Ala Pro Met Tyr Leu  
 50 55 60  
 Phe Leu Cys Leu Leu Ser Leu Thr Asp Leu Ala Leu Ser Ser Thr Thr  
 65 70 75 80  
 Val Pro Lys Met Leu Ala Ile Leu Trp Leu His Ala Gly Glu Ile Ser  
 85 90 95  
 Phe Gly Gly Cys Leu Ala Gln Met Phe Cys Val His Ser Ile Tyr Ala  
 100 105 110  
 Leu Glu Ser Ser Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Asn Pro Leu Arg Tyr Thr Thr Ile Leu Asn His Ala Val Ile  
 130 135 140  
 Gly Arg Ile Gly Phe Val Gly Leu Phe Arg Ser Val Ala Ile Val Ser  
 145 150 155 160  
 Pro Phe Ile Phe Leu Leu Arg Arg Leu Pro Tyr Cys Gly His Arg Val

				165					170					175			
Met	Thr	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys		
			180					185					190				
Ala	Asn	Ile	Thr	Val	Asn	Ile	Val	Tyr	Gly	Leu	Thr	Val	Ala	Leu	Leu		
		195					200					205					
Ala	Met	Gly	Leu	Asp	Ser	Ile	Leu	Ile	Ala	Ile	Ser	Tyr	Gly	Phe	Ile		
	210					215					220						
Leu	His	Ala	Val	Phe	His	Leu	Pro	Ser	His	Asp	Ala	Gln	His	Lys	Ala		
225					230					235					240		
Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Gly	Ile	Ile	Leu	Val	Phe	Tyr	Ile		
			245						250					255			
Pro	Ala	Phe	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly	His	His	Glu	Val		
		260						265					270				
Pro	Lys	His	Val	His	Ile	Phe	Leu	Ala	Asn	Leu	Tyr	Val	Leu	Val	Pro		
	275						280					285					
Pro	Val	Leu	Asn	Pro	Ile	Leu	Tyr	Gly	Ala	Arg	Thr	Lys	Glu	Ile	Arg		
	290					295					300						
Ser	Arg	Leu	Leu	Lys	Leu	Leu	His	Leu	Gly	Lys	Thr	Ser	Ile				
305					310					315							

&lt;210&gt; 1836

&lt;211&gt; 330

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g754 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1836

His	Ile	Glu	Pro	Gly	Asn	Asp	Thr	Gln	Ile	Ser	Glu	Phe	Leu	Leu	Leu		
1				5				10						15			
Gly	Leu	Ser	Asp	Lys	Pro	Glu	Leu	Gln	Pro	Phe	Leu	Phe	Gly	Leu	Phe		
		20						25					30				
Phe	Ser	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu		
	35					40					45						
Ala	Thr	Ile	Ser	Asp	Ser	His	Leu	His	Thr	Pro	Val	Tyr	Phe	Phe	Leu		
	50					55					60						
Ser	Asn	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Phe	Ile	Ser	Thr	Thr	Ile	Pro		
65				70					75					80			
Lys	Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Ser	Arg	Val	Ile	Thr	Tyr	Ala		
			85					90						95			
Gly	Cys	Ile	Thr	Gln	Met	Cys	Phe	Phe	Val	Leu	Leu	Glu	Ala	Leu	Asp		
		100						105					110				
Ser	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Gln	Phe	Val	Ala	Ile	Cys		
	115					120						125					
His	Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Pro	Trp	Phe	Cys	Gly	Leu		
	130				135						140						
Leu	Val	Leu	Ala	Ser	Trp	Ile	Ile	Met	Ser	Pro	Trp	Leu	Cys	Gly	Leu		
145					150					155				160			
Leu	Val	Leu	Ala	Ser	Trp	Ile	Ile	Ser	Asp	Leu	Asp	Ser	Ser	Leu	His		
			165						170					175			
Ser	Leu	Met	Val	Leu	Ser	Leu	Pro	Phe	Cys	Thr	Asp	Phe	Gln	Ile	Pro		
	180							185					190				
His	Phe	Val	Tyr	Glu	Leu	Asn	Gln	Val	Ile	Arg	Leu	Ala	Gly	Ser	Asp		
	195					200						205					
Thr	Phe	Leu	Asn	Asp	Met	Ala	Met	Tyr	Phe	Ala	Val	Gly	Pro	Leu	Gly		
	210				215						220						
Gly	Val	Pro	Leu	Ala	Gly	Ile	Leu	Tyr	Leu	Tyr	Cys	Lys	Ile	Val	Phe		
225					230					235				240			
Ser	Ile	Arg	Ala	Ile	Ser	Ser	Ala	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser		
			245						250					255			

Thr Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Arg Ser  
 260 265 270  
 Leu Gly Val Tyr Phe Ser Ser Ala Pro Thr Gln Asn Ser His Ser Gly  
 275 280 285  
 Ala Ala Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro  
 290 295 300  
 Phe Ile Cys Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Asn Gln  
 305 310 315 320  
 Phe Ile Arg Val Val Pro Phe Phe Arg Lys  
 325 330

&lt;210&gt; 1837

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g755 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1837

Thr Thr Ser Ile Asp Asp Asn Thr Glu Val Asn Glu Phe Ile Xaa Leu  
 1 5 10 15  
 Gly Leu Thr Lys Ala Pro Glu Leu Gln Val His Leu Phe Val Leu Phe  
 20 25 30  
 Asn Phe Ile Tyr Leu Phe Thr Leu Ser Gly Asn Leu Gly Met Met Leu  
 35 40 45  
 Leu Ile Leu Leu Asp Ser Arg Leu His Thr Ser Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Leu Val Asp Phe Cys Tyr Ser Glu Thr Val Thr Pro  
 65 70 75 80  
 Lys Met Met Ala Gly Leu Leu Ile Ala His Lys Val Ile Ser Tyr Asn  
 85 90 95  
 Val Cys Ala Ala Gln Met Phe Phe Phe Ala Val Phe Ala Thr Val Glu  
 100 105 110  
 Ser Tyr Phe Leu Thr Ser Val Ala Tyr Asp Cys Tyr Arg Val Met Cys  
 115 120 125  
 Lys Pro Leu His Tyr Thr Thr Thr Met Thr Thr Asn Val Cys Ala Ser  
 130 135 140  
 Leu Ala Ile Ala Cys Tyr Val Leu Gly Leu Leu Thr Ala Ala Val Asp  
 145 150 155 160  
 Ile Gly Asp Ile Cys Met Ser Asn Glu Ile His His Phe Phe Cys Asp  
 165 170 175  
 Ile Leu Ala Val Met Thr Leu Thr Cys Ser Asn Lys His Ile Asn Glu  
 180 185 190  
 Leu Ile Leu Val Leu Leu Gln Ala Ile Phe Phe Thr Leu Leu Val Ile  
 195 200 205  
 Leu Ile Ser Cys Leu Phe Val Phe Val Phe Val Thr Ile Leu Lys Met  
 210 215 220  
 His Leu Phe Lys Ser Tyr Lys Lys Val Leu Ser Thr Tyr Gly Ser His  
 225 230 235 240  
 Leu Thr Ala Val Pro Leu Phe Tyr Glu Thr Val Leu Ile Thr Tyr Val  
 245 250 255  
 Gln Pro Ser Ser Ser His Phe Met Asn Thr Glu Lys Ile Val Ser Val  
 260 265 270  
 Phe His Ile Met Val Ile Pro Met Leu Ile Pro Val Val Tyr Ser Leu  
 275 280 285  
 Arg Asn Asn Glu Val Lys Ser Ala Phe Lys Thr Val Val Glu Glu Thr

290 295 300  
 Lys Tyr Phe Leu Gly Leu Val Phe  
 305 310

<210> 1838  
 <211> 315  
 <212> PRT  
 <213> Unknown (H38g756 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(315)  
 <223> Xaa = Any Amino Acid

<400> 1838  
 Met Gly Gly Phe Gly Thr Asn Ile Ser Ser Thr Thr Ser Phe Thr Leu  
 1 5 10 15  
 Thr Gly Phe Pro Glu Met Lys Gly Leu Glu His Trp Leu Ala Ala Leu  
 20 25 30  
 Leu Leu Leu Leu Cys Ala Ile Ser Phe Leu Gly Asn Ile Leu Ile Leu  
 35 40 45  
 Phe Ile Ile Lys Glu Glu Gln Ser Leu His Gln Pro Met Tyr Tyr Phe  
 50 55 60  
 Leu Ser Leu Phe Ser Val Asn Asp Leu Gly Val Ser Phe Ser Thr Leu  
 65 70 75 80  
 Pro Thr Val Leu Ala Ala Val Cys Phe His Ala Pro Glu Thr Thr Phe  
 85 90 95  
 Asp Ala Cys Leu Ala Gln Thr Phe Phe Ile His Phe Ser Ser Trp Thr  
 100 105 110  
 Glu Phe Gly Ile Leu Leu Ala Met Ser Phe Asp His Tyr Val Ala Ile  
 115 120 125  
 Cys Asn Pro Leu Arg Tyr Ala Thr Val Leu Thr Asp Val Arg Val Ala  
 130 135 140  
 His Asn Gly Ile Ser Ile Val Ile Arg Ser Phe Cys Met Val Phe Pro  
 145 150 155 160  
 Leu Pro Phe Leu Leu Lys Arg Leu Pro Phe Cys Lys Ala Ser Val Val  
 165 170 175  
 Leu Ala His Ser Tyr Cys Leu His Ala Asp Leu Ile Arg Leu Pro Cys  
 180 185 190  
 Gly Asp Thr Thr Ile Asn Ser Met Tyr Gly Leu Phe Ile Val Ile Ser  
 195 200 205  
 Ala Phe Gly Val Asp Ser Leu Ile Leu Leu Ser Tyr Val Leu Ile  
 210 215 220  
 Leu His Ser Val Leu Ala Ile Ala Ser Arg Gly Glu Arg Leu Lys Thr  
 225 230 235 240  
 Leu Asn Thr Cys Val Ser His Ile Tyr Ala Val Leu Ile Phe Tyr Val  
 245 250 255  
 Pro Met Val Ser Val Ser Met Val His Arg Phe Gly Arg His Ala Pro  
 260 265 270  
 Glu Tyr Val His Lys Phe Met Ser Ser Leu Tyr Leu Pro Met Leu Tyr  
 275 280 285  
 Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile Arg Arg Arg Leu His  
 290 295 300  
 Lys Met Leu Leu Gly Ala Lys Phe Xaa Ser Lys  
 305 310 315

<210> 1839  
 <211> 329  
 <212> PRT



<213> Unknown (H38g757 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1839

```

Met Glu Pro Glu Asn Asp Thr Arg Ile Ser Glu Phe Arg Leu Leu Gly
 1          5          10          15
Phe Ser Glu Glu Pro Arg Leu Gln Arg Phe Arg Phe Leu Phe Gly Val
          20          25          30
Phe Leu Ser Met Tyr Leu Ile Ile Val Phe Gly Asn Leu Leu Ile Ile
          35          40          45
Leu Val Ile Ile Leu Cys Ser His Leu His Thr Ser Met Tyr Phe Phe
          50          55          60
Leu Ser Asn Leu Ser Phe Val Asp Ile Cys Phe Ala Ser Thr Arg Val
65          70          75          80
Pro Lys Met Leu Val Asn Ile Gln Ala Gln Ser Lys Val Ile Thr Ser
          85          90          95
Ala Gly Cys Ile Thr Gln Met Tyr Phe Ile His Phe Val Gly Leu
          100          105          110
Asp Ser Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile
          115          120          125
Cys His Pro Leu Tyr Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly
          130          135          140
Leu Leu Val Leu Val Ser Trp Ile Thr Ser Val Leu His Ser Leu Leu
145          150          155          160
His Ser Leu Met Val Leu Gln Leu Ser Leu Cys Arg Glu Leu Glu Ile
          165          170          175
Pro His Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser
          180          185          190
Asp Thr Phe Leu Asn Asp Met Val Met Tyr Leu Ala Ala Val Leu Leu
          195          200          205
Gly Gly Gly Ser Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys Thr Val
          210          215          220
Ser Ser Ile Cys Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe
225          230          235          240
Ser Thr Cys Pro Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr
          245          250          255
Ser Leu Gly Val Tyr Leu Ser Ser Ala Ala Ser His Asn Ser His Ser
          260          265          270
Gly Ala Ile Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
          275          280          285
Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys
          290          295          300
Asn Ser Leu Gly Gly Lys Leu Glu Lys Gly Gln Leu Ser Leu Gly Leu
305          310          315          320
Lys Leu Tyr Pro Xaa Leu Gln Gly Ser
          325

```

<210> 1840

<211> 320

<212> PRT

<213> Unknown (H38g758 protein)

<220>

<223> Synthetic construct

&lt;400&gt; 1840

```

Met Glu Arg Gly Asn Gln Thr Glu Val Gly Asn Phe Leu Leu Leu Gly
 1          5          10          15
Phe Ala Glu Asp Ser Asp Met Gln Leu Leu His Gly Leu Phe Leu
 20          25          30
Ser Met Tyr Leu Val Thr Ile Ile Gly Asn Leu Leu Ile Ile Leu Thr
 35          40          45
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
 50          55          60
Asn Leu Ser Phe Ala Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
 65          70          75          80
Met Leu Val Asn Ile Gln Thr Gln Ser Lys Met Ile Thr Phe Ala Gly
 85          90          95
Cys Leu Thr Gln Ile Phe Phe Phe Ile Ala Phe Gly Cys Leu Asp Asn
100          105          110
Leu Leu Leu Thr Met Thr Ala Tyr Asp Arg Phe Val Ala Ile Cys Tyr
115          120          125
Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu
130          135          140
Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr
145          150          155          160
Leu Thr Ile Leu Arg Leu Ser Ser Cys Thr Asn Met Glu Ile Pro His
165          170          175
Phe Phe Cys Asp Pro Ser Glu Val Leu Lys Leu Ala Cys Ser Asp Thr
180          185          190
Phe Ile Asn Asn Ile Val Met Cys Phe Val Thr Ile Val Leu Gly Val
195          200          205
Phe Pro Leu Cys Gly Ile Leu Phe Ser Tyr Ser Gln Ile Phe Ser Ser
210          215          220
Val Leu Arg Val Ser Ser Ala Arg Gly Gln His Lys Ala Phe Thr Thr
225          230          235          240
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
245          250          255
Gly Val Tyr Leu Ser Ser Ala Val Thr Pro Pro Ser Arg Thr Ser Leu
260          265          270
Ala Ala Ser Val Met His Thr Met Val Thr Pro Met Leu Asn Pro Phe
275          280          285
Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ser Leu Gly Arg Leu
290          295          300
Leu Leu Arg Ala Thr Ser Leu Lys Glu Gly Thr Ile Ala Lys Leu Ser
305          310          315          320

```

&lt;210&gt; 1841

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g759 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1841

```

Tyr Thr Asp Pro Gln Asn Leu Thr Asp Val Phe Ile Phe Leu Leu Leu
 1          5          10          15
Glu Leu Ser Glu Asp Pro Ala Leu Gln Leu Val Val Thr Gly Leu Cys
 20          25          30
Leu Met Cys Leu Val Thr Val Leu Trp Asn Leu Leu Ser Ile Leu Ala
 35          40          45

```

```

Val Ser Pro Asp Ser His Leu His Thr Pro Met His Phe Phe Leu Cys
  50                      55                      60
Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys
  65                      70                      75                      80
Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly
                      85                      90                      95
Cys Leu Thr Gln Met Ser Leu Ser Ala Ile Phe Gly Gly Met Glu Glu
                      100                      105                      110
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys
                      115                      120                      125
His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe
                      130                      135                      140
Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln Leu
  145                      150                      155                      160
Gln Asn Leu Ile Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile
                      165                      170                      175
Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys
                      180                      185                      190
Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe
                      195                      200                      205
Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val
  210                      215                      220
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Ser Tyr Lys Ala Phe
  225                      230                      235                      240
Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr
                      245                      250                      255
Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys
                      260                      265                      270
Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
                      275                      280                      285
Pro Leu Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu Trp
  290                      295                      300
Gln Pro Cys Ser Arg Thr Ala Ala Gln Ser Pro Ser Gln Tyr Leu His
  305                      310                      315                      320
Leu Phe His Ser Phe Cys Arg Met
                      325

```

&lt;210&gt; 1842

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g760 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(210)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1842

```

Ser Val Lys Tyr Leu Asn Glu Ser Phe Pro Glu Asp Phe Ile Leu Met
  1                      5                      10                      15
Gly Phe Val Lys Tyr Pro Trp Leu Asp Phe Leu Leu Phe Cys Val Leu
                      20                      25                      30
Leu Thr Phe Tyr Met Phe Thr Leu Leu Gly Asn Ser Ala Ile Ile Leu
                      35                      40                      45
Val Ser Gln Leu Asp Ser Gln Leu His Ser Pro Met Tyr Phe Leu Leu
  50                      55                      60
Thr Ser Leu Ser Val Leu Tyr Leu Cys Phe Thr Thr Thr Val Pro
  65                      70                      75                      80
Gln Met Leu Phe Asn Leu Gly Gly Thr Asn Lys Asn Ile Thr Xaa Ile

```

<400> 1843															
Met 1	Glu	Pro	Glu	Lys 5	Gln	Thr	Glu	Ile	Ser 10	Glu	Phe	Phe	Leu	Gln 15	Gly
Leu	Ser	Glu	Lys 20	Pro	Glu	His	Gln	Thr 25	Leu	Leu	Phe	Thr	Met 30	Phe	Leu
Ser	Thr	Tyr 35	Leu	Val	Thr	Ile	Ile 40	Gly	Asn	Ala	Leu	Ile 45	Ile	Leu	Ala
Ile	Ile 50	Thr	Asp	Ser	His 55	Leu	His	Thr	Pro	Met	Tyr 60	Phe	Phe	Leu	Phe
Asn 65	Leu	Ser	Leu	Val	Asp 70	Thr	Leu	Leu	Ser	Ser 75	Thr	Thr	Val	Pro	Lys 80
Met	Leu	Ala	Asn	Ile 85	Gln	Ala	Gln	Ser	Arg 90	Ala	Ile	Pro	Phe	Val 95	Gly
Cys	Leu	Thr	Gln 100	Met	Tyr	Ala	Phe	His 105	Leu	Phe	Gly	Thr	Met 110	Asp	Ser
Phe	Leu	Leu	Ala 115	Val	Met	Ala	Ile	Asp 120	Arg	Phe	Val	Ala 125	Ile	Val	His
Pro	Gln	Arg	Tyr 130	Leu	Val	Leu 135	Met	Cys	Ser	Pro	Val 140	Cys	Gly	Leu	Leu
Leu 145	Gly	Ala	Ser	Trp	Met 150	Ile	Thr	Asn	Leu	Gln 155	Ser	Leu	Ile	His 160	Thr
Cys	Leu	Met	Ala 165	Gln	Leu	Thr	Phe	Cys 170	Ala	Gly	Ser	Glu	Ile	Ser 175	His
Phe	Phe	Cys	Asp 180	Leu	Met	Pro	Leu	Leu 185	Lys	Leu	Ser	Gly	Ser 190	Asp	Thr
His	Thr	Asn 195	Glu	Leu	Val	Ile	Phe 200	Ala	Phe	Gly	Ile 205	Val	Val	Gly	Thr
Ser	Pro 210	Phe	Ser	Cys	Ile 215	Leu	Leu	Ser	Tyr	Ile 220	Arg	Ile	Phe	Trp	Thr
Val 225	Phe	Lys	Ile	Pro	Ser 230	Thr	Arg	Gly	Lys	Trp 235	Lys	Ala	Phe	Ser	Thr 240
Cys	Gly	Leu	His 245	Leu	Thr	Val	Val	Ser 250	Leu	Ser	Tyr	Gly	Thr 255	Ile	Phe
Ala	Val	Tyr 260	Leu	Gln	Pro	Thr	Ser	Pro 265	Ser	Ser	Ser	Gln	Lys 270	Asp	Lys

Ala Ala Ala Leu Met Cys Gly Val Phe Ile Pro Met Leu Asn Pro Phe  
                   275                  280                  285  
 Ile Tyr Ser Ile Arg Asn Lys Asp Met Lys Ala Ala Leu Gly Lys Leu  
                   290                  295                  300  
 Ile Gly Lys Val Ala Val Pro Cys Pro Arg Pro  
 305                  310                  315

&lt;210&gt; 1844

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g762 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1844

Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Leu Gly  
   1                  5                  10                  15  
 Leu Val Asp Gly Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys Leu  
                   20                  25                  30  
 Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala Leu  
                   35                  40                  45  
 Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu Gly  
                   50                  55                  60  
 His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro Arg  
   65                  70                  75                  80  
 Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln Ala  
                   85                  90                  95  
 Cys Phe Ala Glu Met Tyr Phe Phe Val Ala Leu Gly Ile Thr Glu Ser  
                   100                  105                  110  
 Tyr Leu Leu Ala Ala Met Ser Tyr Asp Arg Ala Thr Ala Ala Cys Arg  
                   115                  120                  125  
 Pro Leu Arg Tyr Gly Ala Leu Val Thr Pro Trp Ala Cys Ala Ser Leu  
                   130                  135                  140  
 Val Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His Thr  
   145                  150                  155                  160  
 Leu Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg Pro  
                   165                  170                  175  
 Phe Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp Thr  
                   180                  185                  190  
 Ser Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val Leu  
                   195                  200                  205  
 Ala Pro Leu Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val Ala  
                   210                  215                  220  
 Val Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Tyr Cys Gly Ala  
   225                  230                  235                  240  
 His Leu Val Ala Val Ala Val Ala Leu Phe Phe Gly Ser Val Leu Ser  
                   245                  250                  255  
 Val Tyr Phe Pro Pro Ser Ser Ala Tyr Ser Ala Arg Tyr Asp Arg Leu  
                   260                  265                  270  
 Ala Ser Val Val Tyr Ala Val Ile Thr Pro Thr Leu Asn Pro Phe Ile  
                   275                  280                  285  
 Asn Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Lys Arg Gly Leu  
                   290                  295                  300  
 Arg Trp Arg Ala Ala Pro Gln Glu Ala Trp Arg Ala  
 305                  310                  315

&lt;210&gt; 1845

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g763 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1845

```

Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
 1          5          10          15
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Leu Val Phe Ser Ser
      20          25          30
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
      35          40          45
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
      50          55          60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
      65          70          75          80
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
      85          90          95
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
      100          105          110
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Leu Cys Lys
      115          120          125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
      130          135          140
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
      145          150          155          160
Ala Phe Leu Val Asn Leu Ala Phe Cys Gly Pro Asn Val Leu Asp Ser
      165          170          175
Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asp Thr
      180          185          190
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
      195          200          205
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr
      210          215          220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
      225          230          235          240
Ser Ala His Ser Thr Val Val Leu Leu Phe Phe Gly Pro Pro Met Phe
      245          250          255
Val Tyr Thr Arg Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
      260          265          270
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
      275          280          285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
      290          295          300
Leu Val Ile Tyr Lys Arg Ile Ser
      305          310

```

&lt;210&gt; 1846

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g764 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1846

```

Met Trp Gln Lys Asn Gln Thr Ser Leu Ala Asp Phe Ile Leu Glu Gly
 1          5          10          15
Leu Phe Asp Asp Ser Leu Thr His Leu Phe Leu Phe Ser Leu Thr Met
      20          25          30
Val Val Phe Leu Ile Ala Val Ser Gly Asn Thr Leu Thr Ile Leu Leu
      35          40          45

```

```

Ile Cys Ile Asp Pro Gln Leu His Thr Pro Met Tyr Phe Leu Leu Ser
 50          55          60
Gln Leu Ser Leu Met Asp Leu Met His Val Ser Thr Thr Ile Leu Lys
 65          70          75          80
Met Ala Thr Asn Tyr Leu Ser Gly Lys Lys Ser Ile Ser Phe Val Gly
          85          90          95
Cys Ala Thr Gln His Phe Leu Tyr Leu Cys Leu Gly Gly Ala Glu Cys
          100          105          110
Phe Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His
          115          120          125
Pro Leu Arg Tyr Ala Val Leu Met Asn Lys Lys Val Gly Leu Met Met
          130          135          140
Ala Val Met Ser Trp Leu Gly Ala Ser Val Asn Ser Leu Ile His Met
          145          150          155          160
Ala Ile Leu Met His Phe Pro Phe Cys Gly Pro Arg Lys Val Tyr His
          165          170          175
Phe Tyr Cys Glu Phe Pro Ala Val Val Lys Leu Val Cys Gly Asp Ile
          180          185          190
Thr Val Tyr Glu Thr Thr Val Tyr Ile Ser Ser Ile Leu Leu Leu Leu
          195          200          205
Pro Ile Phe Leu Ile Ser Thr Ser Tyr Val Phe Ile Leu Gln Ser Val
          210          215          220
Ile Gln Met Arg Ser Ser Gly Ser Lys Arg Asn Ala Phe Ala Thr Cys
          225          230          235          240
Gly Ser His Leu Thr Val Val Ser Leu Trp Phe Gly Ala Cys Ile Phe
          245          250          255
Ser Tyr Met Arg Pro Arg Ser Gln Cys Thr Leu Leu Gln Asn Lys Val
          260          265          270
Gly Ser Val Phe Tyr Ser Ile Ile Thr Pro Thr Leu Asn Ser Leu Ile
          275          280          285
Tyr Thr Leu Arg Asn Lys Asp Val Ala Lys Ala Leu Arg Arg Val Leu
          290          295          300
Arg Arg Asp Val Ile Thr Gln Cys Ile Gln Arg Leu Gln Leu
          305          310          315

```

&lt;210&gt; 1847

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g765 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(105)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1847

```

Thr Leu Cys Ala Thr Ala Xaa Leu Asp His Phe Ile Cys Glu Leu Pro
 1          5          10          15
Ala Leu Leu Lys Leu Ala Arg Gly Gly Ile Gly Asp Thr Thr Glu Asn
          20          25          30
Gln Met Phe Ala Ala Arg Val Val Ile Leu Leu Leu Pro Phe Ala Val
          35          40          45
Ile Leu Ala Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg
          50          55          60
Phe Ser Gly Gly Arg Arg Arg Ala Val Gly Thr Cys Gly Ser His Leu
          65          70          75          80
Thr Ala Val Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln
          85          90          95
Pro Ala Gln Arg Asn Asn Gln Ala Arg

```

100

105

<210> 1848  
 <211> 104  
 <212> PRT  
 <213> Unknown (H38g766 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(104)  
 <223> Xaa = Any Amino Acid

<400> 1848  
 Ile His Ala Leu Ser Ala Ile Glu Ser Thr Ile Leu Leu Ala Met Ala  
 1 5 10 15  
 Phe Asn Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala Val  
 20 25 30  
 Leu Asn Asn Thr Val Thr Ala Gln Ile Gly Ile Val Ala Val Val Arg  
 35 40 45  
 Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu Leu Ile Lys Arg Leu Ala  
 50 55 60  
 Phe Cys His Ser Asn Val Leu Ser His Ser Tyr Cys Val His Gln Asp  
 65 70 75 80  
 Val Met Lys Leu Ala Tyr Ala Asp Asn Leu Pro Asn Val Val Tyr Gly  
 85 90 95  
 Leu Asn Xaa Pro Phe Trp Leu Val  
 100

<210> 1849  
 <211> 320  
 <212> PRT  
 <213> Unknown (H38g767 protein)

<220>  
 <223> Synthetic construct

<400> 1849  
 Met Glu Thr Gly Asn Gln Thr His Ala Gln Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Phe Ser Ala Thr Ser Glu Ile Gln Phe Ile Leu Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Phe Thr Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Cys Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ala Asp Leu Cys Phe Thr Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Leu Asn Ile Leu Thr Gln Asn Lys Phe Ile Thr Tyr Ala Gly  
 85 90 95  
 Cys Leu Ser Gln Ile Phe Phe Phe Thr Ser Phe Gly Cys Leu Asp Asn  
 100 105 110  
 Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Gly Leu Leu  
 130 135 140  
 Val Leu Gly Ser Trp Cys Ile Ser Val Met Gly Ser Leu Leu Glu Thr  
 145 150 155 160  
 Leu Thr Val Leu Arg Leu Ser Phe Cys Thr Lys Met Glu Ile Pro His  
 165 170 175



```

Phe Phe Cys Asp Leu Leu Glu Val Leu Lys Leu Ala Cys Ser Asp Thr
      180      185      190
Phe Ile Asn Asn Val Val Ile Tyr Phe Ala Thr Gly Val Leu Gly Val
      195      200      205
Ile Ser Phe Thr Gly Ile Phe Phe Ser Tyr Tyr Lys Ile Val Phe Ser
      210      215      220
Ile Leu Arg Ile Ser Ser Ala Gly Arg Lys His Lys Ala Phe Ser Thr
      225      230      235      240
Cys Gly Ser His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Gly Phe
      245      250      255
Gly Val Tyr Leu Ser Ser Ala Ala Thr Pro Ser Ser Arg Thr Ser Leu
      260      265      270
Val Ala Ser Val Met Tyr Thr Met Val Thr Pro Met Leu Asn Pro Phe
      275      280      285
Ile Tyr Ser Leu Arg Asn Thr Asp Met Lys Arg Ala Leu Gly Arg Leu
      290      295      300
Leu Ser Arg Ala Thr Phe Phe Asn Gly Asp Ile Thr Ala Gly Leu Ser
      305      310      315      320

```

&lt;210&gt; 1850

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g768 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1850

```

Met Gly Asp Asn Gln Ser Arg Val Thr Glu Phe Ile Leu Val Gly Phe
  1      5      10      15
Gln Leu Ser Val Glu Met Glu Val Leu Leu Phe Trp Ile Phe Ser Leu
  20      25      30
Leu Tyr Leu Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile
  35      40      45
Cys Leu Asp Pro Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Ser His
  50      55      60
Leu Ala Val Ile Asp Ile Tyr Tyr Ala Ser Ser Asn Leu Leu Asn Met
  65      70      75      80
Leu Glu Asn Leu Val Lys His Lys Lys Asn Tyr Pro Phe Ile Ser Cys
  85      90      95
Ile Met Gln Met Ala Leu Tyr Leu Thr Phe Ala Ala Ala Val Cys Met
  100     105     110
Ile Leu Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro
  115     120     125
Leu His Tyr Thr Val Ile Met Asn Trp Arg Val Cys Thr Val Leu Ala
  130     135     140
Ile Thr Ser Trp Ala Cys Gly Phe Ser Leu Ala Leu Ile Asn Leu Ile
  145     150     155     160
Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Val Asn His Phe
  165     170     175
Phe Gly Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
  180     185     190
Ile Asn Glu Ile Phe Val Phe Ala Gly Gly Val Phe Val Leu Val Gly
  195     200     205
Pro Leu Ser Leu Met Leu Ile Ser Tyr Met Arg Ile Leu Leu Ala Ile
  210     215     220
Leu Lys Ile Gln Ser Lys Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys

```

```

225          230          235          240
Ser Ser His Leu Cys Val Val Gly Leu Tyr Phe Gly Met Ala Met Val
          245          250          255
Val Tyr Leu Val Pro Asp Asn Ser Gln Arg Gln Lys Gln Gln Lys Ile
          260          265          270
Leu Thr Leu Phe Tyr Ser Leu Phe Asn Pro Leu Leu Asn Pro Leu Ile
          275          280          285
Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu Tyr Arg Ala Leu
          290          295          300
Gln Lys Lys Arg Thr Met Xaa Met
305          310

```

&lt;210&gt; 1851

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g769 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1851

```

Met Glu Pro Gly Asn Asp Thr Gln Ile Ser Glu Phe Leu Leu Leu Gly
 1          5          10          15
Phe Ser Gln Glu Pro Gly Leu Gln Pro Phe Leu Phe Gly Leu Phe Leu
          20          25          30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
          35          40          45
Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
          50          55          60
Asn Leu Ser Phe Ala Asp Ile Cys Val Thr Ser Thr Thr Ile Pro Lys
          65          70          75          80
Met Leu Met Asn Ile Gln Thr Gln Asn Lys Val Ile Thr Tyr Ile Ala
          85          90          95
Cys Leu Met Gln Met Tyr Phe Phe Ile Leu Phe Ala Gly Phe Glu Asn
          100          105          110
Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
          115          120          125
Pro Leu His Tyr Met Val Ile Met Asn Pro His Leu Cys Gly Leu Leu
          130          135          140
Val Leu Ala Ser Trp Thr Met Ser Ala Leu Tyr Ser Leu Leu Gln Ile
          145          150          155          160
Leu Met Val Val Arg Leu Ser Phe Cys Thr Ala Leu Glu Ile Pro His
          165          170          175
Phe Phe Cys Glu Leu Asn Gln Val Ile Gln Leu Ala Cys Ser Asp Ser
          180          185          190
Phe Leu Asn His Met Val Ile Tyr Phe Thr Val Ala Leu Leu Gly Gly
          195          200          205
Gly Pro Leu Thr Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Ile Ser Ser
          210          215          220
Ile His Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr
          225          230          235          240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Ala Ile Leu
          245          250          255
Gly Val Tyr Leu Ser Ser Ala Ala Thr Arg Asn Ser His Ser Ser Ala
          260          265          270
Thr Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Gly Ile His
          290          295          300
Leu Leu Trp Gly Thr Met Lys Gly Gln Phe Phe Lys Lys Cys Pro
          305          310          315

```

<210> 1852  
 <211> 74  
 <212> PRT  
 <213> Unknown (H38g770 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(74)  
 <223> Xaa = Any Amino Acid

<400> 1852  
 Gly Asp Thr Thr Glu Asn Gln Met Phe Ala Ala Arg Val Val Ile Leu  
 1 5 10 15  
 Leu Leu Pro Tyr Asp Val Ile Leu Ala Ser Xaa Gly Ala Val Ala Arg  
 20 25 30  
 Ala Val Cys Cys Met Arg Phe Ser Gly Gly Pro Arg Arg Ala Leu Gly  
 35 40 45  
 Thr Cys Gly Ser His Pro Thr Ala Val Trp Leu Phe Xaa Gly Ser Gly  
 50 55 60  
 Lys Xaa Thr Tyr Leu Gln Ala Ala Gln Leu  
 65 70

<210> 1853  
 <211> 309  
 <212> PRT  
 <213> Unknown (H38g771 protein)

<220>  
 <223> Synthetic construct

<400> 1853  
 Met Lys Ser Trp Asn Asn Thr Ile Ile Leu Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Ile Ser Glu Glu Pro Glu Leu Gln Ala Phe Leu Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Val Gly Ile Cys Phe Val Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Ile Gln Thr His Asn Lys Val Ile Thr Tyr Ala Gly  
 85 90 95  
 Cys Ile Thr Gln Met Cys Phe Phe Leu Leu Phe Val Gly Leu Asp Asn  
 100 105 110  
 Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Met Val Ile Met Asn Pro Gln Leu Cys Gly Leu Leu  
 130 135 140  
 Val Leu Ala Ser Trp Ile Met Ser Val Leu Asn Ser Met Leu Gln Ser  
 145 150 155 160  
 Leu Met Val Leu Pro Leu Pro Phe Cys Thr His Met Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Glu Ile Asn Gln Val Val His Leu Ala Cys Ser Asp Thr  
 180 185 190  
 Phe Leu Asn Asp Ile Val Met Tyr Phe Ala Val Ala Leu Leu Gly Gly  
 195 200 205  
 Gly Pro Leu Thr Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser

```

      210              215              220
Ile Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr
225              230              235              240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Cys Leu
      245              250              255
Gly Val Tyr Leu Ser Ser Ala Ala Thr His Asn Ser His Thr Gly Ala
      260              265              270
Ala Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
      275              280              285
Ile Tyr Ser Leu Arg Asn Lys His Ile Lys Gly Ala Met Lys Thr Phe
      290              295              300
Phe Arg Gly Lys Gln
305

```

<210> 1854  
 <211> 82  
 <212> PRT  
 <213> Unknown (H38g772 protein)

<220>  
 <223> Synthetic construct

```

<400> 1854
Met Val Thr Glu Phe Leu Pro Leu Gly Phe Leu Leu Gly Pro Arg Ile
 1              5              10              15
Gln Met Leu Leu Leu Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Pro
      20              25              30
Leu Gly Asn Gly Thr Ile Pro Gly Leu Ile Ser Leu Asp Ser Arg Leu
      35              40              45
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asn Ile
      50              55              60
Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu Val Asn Leu Leu His
      65              70              75              80
Pro Ala

```

<210> 1855  
 <211> 216  
 <212> PRT  
 <213> Unknown (H38g773 protein)

<220>  
 <223> Synthetic construct

```

<400> 1855
Leu Met Asp Leu Lys Leu Ile Cys Thr Thr Val Pro Lys Met Ala Phe
 1              5              10              15
Asn Tyr Leu Ser Gly Ser Lys Ser Ile Ser Met Ala Gly Cys Val Thr
      20              25              30
Gln Ile Phe Phe Tyr Ile Ser Leu Ser Gly Ser Glu Cys Phe Leu Leu
      35              40              45
Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His Pro Leu Arg
      50              55              60
Tyr Thr Asn Leu Met Asn Pro Lys Ile Cys Gly Leu Met Ala Thr Phe
      65              70              75              80
Ser Trp Ile Leu Gly Ser Thr Asp Gly Ile Ile Asp Ala Val Ala Thr
      85              90              95
Phe Ser Phe Ser Phe Cys Gly Ser Arg Glu Ile Ala His Phe Phe Cys
      100              105              110
Glu Phe Pro Ser Leu Leu Ile Leu Ser Cys Asn Asp Thr Ser Ile Phe
      115              120              125

```

Glu Glu Val Ile Phe Ile Cys Cys Ile Val Met Leu Val Phe Pro Val  
 130 135 140  
 Ala Ile Ile Ile Ala Ser Tyr Ala Arg Val Ile Leu Ala Val Ile His  
 145 150 155 160  
 Met Gly Ser Gly Glu Gly Arg Cys Lys Ala Phe Thr Thr Cys Ser Ser  
 165 170 175  
 His Leu Met Val Val Gly Met Tyr Tyr Gly Ala Ala Leu Phe Met Tyr  
 180 185 190  
 Ile Arg Pro Thr Ser Asp His Ser Pro Thr Gln Asp Lys Met Val Ser  
 195 200 205  
 Val Phe Tyr Thr Ile Leu Thr Pro  
 210 215

&lt;210&gt; 1856

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g774 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(305)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1856

Met Lys Pro Gly Asn Asp Thr Arg Ile Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ala Glu Pro Glu Leu Gln Pro Phe Phe Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ala Asp Ile Ser Phe Val Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Ile Gln Thr Gln Ser Arg Val Ile Thr Tyr Ala Gly  
 85 90 95  
 Cys Ile Thr Gln Met Cys Phe Phe Leu Leu Phe Ala Val Leu Asp Ser  
 100 105 110  
 Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Tyr Tyr Thr Ile Ile Met Asn Pro Gln Phe Tyr Ser Trp Ile  
 130 135 140  
 Leu Ser Val Leu Asn Ser Leu Leu Gln Ser Leu Met Val Leu Pro Leu  
 145 150 155 160  
 Pro Phe Tyr Thr Asp Ile Ala Ile Pro His Phe Phe Cys Glu Leu Asn  
 165 170 175  
 Gln Ile Ile Cys Ile Ala Cys Ser Asp Thr Phe Leu Asn Asp Ile Met  
 180 185 190  
 Ile Tyr Cys Ala Thr Val Leu Leu Gly Gly Gly Pro Leu Thr Gly Ile  
 195 200 205  
 Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser Ile Arg Ala Ile Ser Ser  
 210 215 220  
 Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser  
 225 230 235 240  
 Val Val Ser Leu Phe Tyr Gly Thr Ser Leu Gly Met Tyr Leu Ser Ser  
 245 250 255  
 Ala Ala Thr His Asn Ser Pro Ser Ser Ala Thr Ala Ser Val Met Tyr  
 260 265 270  
 Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn

275                      280                      285  
 Lys Asp Leu Lys Asp Ala Leu Lys Arg Phe Phe Arg Arg Lys Gln Xaa  
 290                      295                      300  
 Lys  
 305

<210> 1857  
 <211> 120  
 <212> PRT  
 <213> Unknown (H38g775 protein)

<220>  
 <223> Synthetic construct

<400> 1857  
 Phe Ser Leu Ser His Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn  
 1                      5                      10                      15  
 Thr Val Pro Arg Met Leu Val Asn Leu His Pro Ala Lys Pro Ile  
 20                      25                      30  
 Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala  
 35                      40                      45  
 Val Thr Glu Cys Phe Leu Leu Val Val Lys Ser Asn Asp Leu Tyr Val  
 50                      55                      60  
 Ala Ile Cys His Pro Ser Arg Tyr Leu Ala Ile Met Thr Trp Arg Val  
 65                      70                      75                      80  
 Cys Ile Thr Leu Ala Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser  
 85                      90                      95  
 Leu Ile His Leu Val Leu Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln  
 100                      105                      110  
 Lys Ile Tyr His Phe Phe Cys Glu  
 115                      120

<210> 1858  
 <211> 214  
 <212> PRT  
 <213> Unknown (H38g776 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(214)  
 <223> Xaa = Any Amino Acid

<400> 1858  
 Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys Met Ile Val  
 1                      5                      10                      15  
 Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr  
 20                      25                      30  
 Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu Asn Met Leu  
 35                      40                      45  
 Pro Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu  
 50                      55                      60  
 Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu  
 65                      70                      75                      80  
 Leu Ser Phe Phe Leu Ser Phe Ser Gln Leu His Asn Leu Ile Ala Leu  
 85                      90                      95  
 Gln Met Thr Cys Phe Lys Asn Val Gly Ile Pro Asn Phe Leu Cys Asp  
 100                      105                      110  
 Pro Ser Gln Leu Pro His Leu Thr Cys Cys Asp Thr Phe Thr Asn His  
 115                      120                      125

Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser  
 130 135 140  
 Gly Thr Leu Phe Ser Tyr His Val Ile Val Ser Ser Ile Leu Arg Val  
 145 150 155 160  
 Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Tyr Gly Ser His  
 165 170 175  
 Leu Ser Asp Val Ser Xaa Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu  
 180 185 190  
 Ser Ser Asp Val Ser Ser Ser Pro Arg Lys Thr Ala Val Ala Ser Val  
 195 200 205  
 Met Tyr Ala Val Val Thr  
 210

&lt;210&gt; 1859

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g777 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(166)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1859

Val Lys Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly Phe Phe  
 1 5 10 15  
 Leu Ser Pro Arg Ile His Met Leu Leu Phe Gly Leu Phe Tyr Leu Phe  
 20 25 30  
 Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser  
 35 40 45  
 Leu Asp Ser Ile Leu His Thr Pro Met Tyr Phe Phe Leu Xaa His Leu  
 50 55 60  
 Ser Val Val Asn Ile Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu  
 65 70 75 80  
 Val Asn Leu Leu His Ser Ala Lys Pro Ile Tyr Phe Ala Gly Cys Met  
 85 90 95  
 Thr Tyr Thr Phe Leu Phe Leu Arg Phe Ala His Thr Glu Cys Leu Leu  
 100 105 110  
 Leu Val Leu Met Ser Tyr Asp Trp Tyr Val Ala Ile Leu Thr Pro Leu  
 115 120 125  
 Arg Tyr Ile Ile Ile Met Thr Trp Lys Val Phe Ile Ile Ser Ala Ile  
 130 135 140  
 Thr Ser Trp Thr Cys Gly Ser Phe Leu Ser Met Val His Val Ser Leu  
 145 150 155 160  
 Ile Leu Arg Leu Pro Phe  
 165

&lt;210&gt; 1860

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g778 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(93)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1860

Gln Met Ser Leu Phe Val Ile Phe Ala Ser Ala Glu Cys Asn Leu Phe  
 1 5 10 15  
 Lys Leu Ala Leu Ala Tyr Arg Pro Xaa Cys Tyr Cys His Leu Cys Thr  
 20 25 30  
 His Pro Phe Tyr His Ile Asp His Val Xaa Glu Ala Ile Ile Phe Phe  
 35 40 45  
 Leu Val Ala Gly Cys Tyr Leu Gly Gly Leu Val Lys Met Val Thr Val  
 50 55 60  
 Thr Thr Ser Ile Thr Gln Leu Ser Leu Cys Gln Pro Cys Val His Leu  
 65 70 75 80  
 His Phe Phe Cys Asp Ile Pro Ser Phe Cys Ser Tyr Ser  
 85 90

&lt;210&gt; 1861

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g779 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1861

Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys Leu Leu Gln  
 1 5 10 15  
 Asn Met Gln Ser Gln Val Pro Thr Ile Ser Tyr Ala Asp Cys Leu Thr  
 20 25 30  
 Gln Leu Tyr Phe Phe Met Val Phe Gly Asp Met Glu Ser Phe Leu Leu  
 35 40 45  
 Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His  
 50 55 60  
 Tyr Thr Ser Ile Met Ser Thr Lys Phe Cys Ala Leu Leu Val Leu Leu  
 65 70 75 80  
 Leu Trp Met Leu Thr Ile Ser His Ala Leu Leu His Thr Leu Leu Met  
 85 90 95  
 Ala Arg Leu Ser Phe Cys Glu Lys Asn Val Ile Leu His Phe Phe Cys  
 100 105 110  
 Asp Ile Ser Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr Tyr Val Asn  
 115 120 125  
 Glu Leu Met Ile Phe Ile Met Gly Gly Ile Ile Ser Ile Ile Pro Phe  
 130 135 140  
 Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser Ile Leu Lys  
 145 150 155 160  
 Val Pro Ser Ser Gln Asp Ile His Lys Val Phe Ser Thr Cys Gly Ser  
 165 170 175  
 His Leu Ser Val Val Thr Leu Phe Tyr Gly Thr Ile Ile Gly Leu Tyr  
 180 185 190  
 Leu Cys Pro Ser Gly Asn Asn Ser Thr Val Asn Glu Ile Ser Met Ala  
 195 200 205  
 Met Met Tyr Thr Val Val Ala  
 210 215

&lt;210&gt; 1862

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g780 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT



&lt;222&gt; (1)...(219)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1862

```

Ser Asn Leu Ser Phe Thr Asp Leu Xaa Phe Ser Ser Val Thr Met Pro
 1          5          10          15
Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Tyr Ala
      20          25          30
Gly Cys Leu Thr Gln Met Tyr Phe Leu Leu Phe Phe Gly Asp Leu Glu
      35          40          45
Ser Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
      50          55          60
Phe Pro Leu His Tyr Thr Ser Ile Met Ser Pro Arg Leu Cys Val Ser
      65          70          75          80
Leu Val Leu Leu Ser Trp Leu Leu Thr Met Ser His Ser Met Leu His
      85          90          95
Thr Leu Leu Leu Thr Arg Leu Ser Phe Cys Glu Asn Asn Val Ile Pro
      100          105          110
His Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp
      115          120          125
Ile His Ile Asn Glu Leu Val Ile Leu Ile Ile Gly Gly Leu Val Val
      130          135          140
Ile Leu Pro Phe Leu Leu Ile Thr Val Ser Tyr Ala Arg Ile Ile Ser
      145          150          155          160
Ser Ile Leu Lys Val Pro Ser Thr Gln Gly Ile His Lys Val Phe Ser
      165          170          175
Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile
      180          185          190
Ile Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Leu Lys Asp
      195          200          205
Thr Val Met Ser Met Met Tyr Thr Val Val Thr
      210          215

```

&lt;210&gt; 1863

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g781 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1863

```

Met Glu Asn Asn Thr Glu Val Thr Glu Phe Ile Leu Val Gly Leu Thr
 1          5          10          15
Asp Asp Pro Glu Leu Gln Ile Pro Leu Phe Ile Val Phe Leu Phe Ile
      20          25          30
Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Glu Leu Ile Leu
      35          40          45
Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu
      50          55          60
Ser Leu Val Asp Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met
      65          70          75          80
Val Gly Phe Leu Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala
      85          90          95
Thr Gln Phe Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu
      100          105          110
Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu
      115          120          125
His Tyr Thr Thr Thr Met Thr Thr Asn Val Cys Ala Cys Leu Ala Ile
      130          135          140
Gly Ser Tyr Ile Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn

```

```

145          150          155          160
Thr Phe Arg Leu Ser Phe Cys Arg Ser Asn Val Val Glu His Phe Phe
165          170          175
Cys Asp Ala Pro Pro Leu Leu Thr Leu Ser Cys Ser Asp Asn Tyr Ile
180          185          190
Ser Glu Met Val Ile Phe Phe Val Val Gly Phe Asn Asp Leu Phe Ser
195          200          205
Ile Leu Val Ile Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Met
210          215          220
Lys Met Arg Ser Pro Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala
225          230          235          240
Ser His Leu Thr Ala Val Ser Ile Phe Tyr Gly Thr Gly Ile Phe Met
245          250          255
Tyr Leu Arg Pro Asn Ser Ser His Phe Met Gly Thr Asp Lys Met Ala
260          265          270
Ser Val Phe Tyr Ala Ile Val Ile Pro Met Leu Asn Pro Leu Val Tyr
275          280          285
Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Lys Lys Thr Val Gly
290          295          300
Lys Ala Lys Ala Ser Ile Gly Phe Ile Phe
305          310

```

&lt;210&gt; 1864

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g782 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(189)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1864

```

Ala Thr Lys Glu Leu Cys Phe Leu Gly Val Tyr Ile Pro Lys Gly Asp
1      5      10
Ala Cys Trp Lys Xaa Leu Xaa Leu Gly Leu His Leu Leu Leu Gly
20     25     30
Xaa Gln Val Val Ser Met Val Gly Asn Leu Ala Leu Ile Ala Leu Ile
35     40     45
Gly Xaa Asn Ser Tyr Leu His His Pro Gln Ala Leu Phe Ser Phe Thr
50     55     60
Gln Ser Phe Pro Asp Leu Tyr Cys Pro Val Cys Thr Pro Arg Met Leu
65     70     75     80
Met Thr Phe Val Ser Lys Lys Asn Ile Phe Tyr Val Arg Cys Met Thr
85     90     95
Gln Leu Ser Gln Leu Phe Phe Leu Phe Ile Val Leu Ser Ile Lys Tyr
100    105    110
His Val Leu Met Phe Ile Ala Cys Gly Cys Leu Val Ala Ile Tyr Asn
115    120    125
Pro Ser Leu His Glu Val Thr Met Ser Pro Gln Val Arg Glu Met Arg
130    135    140
Glu Ser Gly Phe Ala Gly Thr Thr Ala His Thr Gly His Ile Leu Arg
145    150    155    160
Pro Asn Leu Cys Asn Ile Asp Val Ile Asn His His Leu Thr Asp Ser
165    170    175
Leu Leu Val Leu Xaa Val Ser Cys Thr Ser Thr Cys Ala
180    185

```

&lt;210&gt; 1865

<211> 311  
 <212> PRT  
 <213> Unknown (H38g783 protein)

<220>  
 <223> Synthetic construct

<400> 1865  
 Met Thr Gly Gly Asn Ile Thr Glu Ile Thr Tyr Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Ser Asp Phe Pro Arg Ile Ile Lys Val Leu Phe Thr Ile Phe  
 20 25 30  
 Leu Val Ile Tyr Ile Thr Ser Leu Ala Trp Asn Leu Ser Leu Ile Val  
 35 40 45  
 Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Phe Ile Asp Val Cys Tyr Ile Ser Ser Thr Val Pro  
 65 70 75 80  
 Lys Met Leu Ser Asn Leu Leu Gln Glu Gln Gln Thr Ile Thr Phe Val  
 85 90 95  
 Gly Cys Ile Ile Gln Tyr Phe Ile Phe Ser Thr Met Gly Leu Ser Glu  
 100 105 110  
 Ser Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys  
 115 120 125  
 Asn Pro Leu Leu Tyr Ser Ser Ile Met Ser Pro Thr Leu Cys Val Trp  
 130 135 140  
 Met Val Leu Gly Ala Tyr Met Thr Gly Leu Thr Ala Ser Leu Phe Gln  
 145 150 155 160  
 Ile Gly Ala Leu Leu Gln Leu His Phe Cys Gly Ser Asn Val Ile Arg  
 165 170 175  
 His Phe Phe Cys Asp Met Pro Gln Leu Leu Ile Leu Ser Cys Thr Asp  
 180 185 190  
 Thr Phe Phe Val Gln Val Met Thr Ala Ile Leu Thr Met Phe Phe Gly  
 195 200 205  
 Ile Ala Ser Ala Leu Val Ile Met Ile Ser Tyr Gly Tyr Ile Gly Ile  
 210 215 220  
 Ser Ile Met Lys Ile Thr Ser Ala Lys Gly Arg Pro Lys Ala Phe Asn  
 225 230 235 240  
 Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Thr Ser Gly  
 245 250 255  
 Ile Phe Val Tyr Leu Arg Ser Ser Ser Gly Gly Ser Ser Ser Phe Asp  
 260 265 270  
 Arg Phe Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu Lys Arg  
 290 295 300  
 Leu Gln Lys Arg Lys Cys Cys  
 305 310

<210> 1866  
 <211> 312  
 <212> PRT  
 <213> Unknown (H38g784 protein)

<220>  
 <223> Synthetic construct

<400> 1866  
 Met Thr Gly Glu Arg Asn Ser Thr Arg Ile Thr Lys Phe Ile Leu Leu  
 1 5 10 15  
 Gly Phe Ser Glu Phe Pro Lys Asn Pro Ile Phe Leu Phe Ser Ile Phe

```
<210> 1867
<211> 444
<212> PRT
<213> Unknown (H38q785 protein)
```

```
<220>
<223> Synthetic construct

<221> VARIANT
<222> (1)...(444)
<223> Xaa = Any Amino Acid
```

<400> 1867															
Met	Thr	Val	Glu	Arg	Ser	Ser	Met	Thr	Ile	Thr	Lys	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Glu	Tyr	Ser	Lys	Thr	Thr	Ile	Phe	Leu	Phe	Ser	Val	Phe
			20					25					30		
Leu	Gly	Ile	Tyr	Leu	Leu	Thr	Met	Ser	Xaa	Asn	Val	Ser	Leu	Ile	Ala
		35					40					45			
Leu	Ile	Arg	Thr	Asp	Ser	His	Leu	His	Ala	Pro	Val	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Pro	Ser	Phe	Leu	Asp	Ile	Cys	Cys	Val	Ser	Thr	Ile	Ala	Pro
65					70					75					80

Lys Met Pro Ser Asp Phe Phe Lys Lys His Lys Phe Ile Ser Phe Met  
 85 90 95  
 Gly Cys Thr Met Gln Tyr Phe Ser Ser Leu Asn Val Thr Glu Cys Cys  
 100 105 110  
 Leu Leu Thr Ala Met Ala Tyr Asp Xaa Tyr Ala Ala Ile Cys Asp Pro  
 115 120 125  
 Leu Leu Tyr Thr Ala Ile Met Ser Pro Ala Leu Cys Met Pro Met Val  
 130 135 140  
 Ala Gly Ser Cys Thr Thr Gly Tyr Phe Val Ser Phe Ile Gln Leu Cys  
 145 150 155 160  
 Ala Leu Leu Leu Leu His Phe Cys Glu Ser Asn Ser Ser His Phe Phe  
 165 170 175  
 Cys Asp Leu Pro Gln Leu Leu Ile Leu Ser Cys Ser His Thr Val Phe  
 180 185 190  
 Phe Phe Ser Ser His Asp His Tyr Ala His Ser Asn Leu Tyr Thr His  
 195 200 205  
 Leu Tyr Leu Gly Tyr His Asp Asn Leu Trp Leu Tyr His Cys Gln His  
 210 215 220  
 Ser Ser Leu Leu Trp Asp Ala Pro Cys Asn Thr Ser Ser Leu Ala Trp  
 225 230 235 240  
 Val Xaa Leu Ser Ala Val Phe Trp Lys Leu Trp Leu Ile Ile Asp Met  
 245 250 255  
 Leu Pro Phe Val Thr Leu Cys Ser Thr Trp Pro Ser Met Ser Pro Thr  
 260 265 270  
 Ser Val Cys Thr Xaa Trp Leu Glu Pro Val Xaa Leu Leu Ser Leu Ala  
 275 280 285  
 His Leu Ser Asn Tyr Val Leu Cys Phe Ser Ser Ile Ser Val Gly Gln  
 290 295 300  
 Ile Val Asn His Phe Phe Cys Asp Leu Pro Gln Leu Leu Ile Leu Ser  
 305 310 315 320  
 Cys Tyr Asp Thr Phe Phe Cys Gln Val Met Thr Ser Met Leu Thr Val  
 325 330 335  
 Val Phe Gly Leu Thr Ser Val Leu Val Ile Met Ile Phe Tyr Gly Tyr  
 340 345 350  
 Val Ile Ala Thr Ile Leu Lys Ile Ile Ser Val Glu Gly Arg Ser Lys  
 355 360 365  
 Val Phe Asn Thr Gly Gly Ser His Leu Ile Ala Val Thr Leu Phe Tyr  
 370 375 380  
 Cys Ser Arg Ile Phe Val Tyr Met Cys Ser His Ser Asp Ala Ser Leu  
 385 390 395 400  
 Ser Arg Asn Lys Val Asp Ser Ile Val Tyr Thr Val Val Ile Pro Arg  
 405 410 415  
 Leu Asn Pro Leu Ile Tyr Ser Leu Ser Asp Lys Xaa Ile Lys Asp Ala  
 420 425 430  
 Leu Lys Arg Trp Thr Lys Arg Ile Phe Ser Trp Pro  
 435 440

&lt;210&gt; 1868

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g786 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1868

Met Gly Glu Asn Gln Thr Met Val Thr Glu Phe Leu Leu Leu Gly Phe  
 1 5 10 15  
 Leu Leu Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu  
 20 25 30  
 Phe Tyr Ile Phe Thr Leu Leu Gly Asn Gly Ala Ile Leu Gly Leu Ile

35	40	45													
Ser	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
50						55					60				
Leu	Ala	Val	Val	Asp	Ile	Ala	Tyr	Thr	Arg	Asn	Thr	Val	Pro	Gln	Met
65					70					75				80	
Leu	Ala	Asn	Leu	Leu	His	Pro	Ala	Lys	Pro	Ile	Ser	Phe	Ala	Gly	Cys
				85					90					95	
Met	Thr	Gln	Thr	Phe	Leu	Cys	Leu	Ser	Phe	Gly	His	Ser	Glu	Cys	Leu
			100					105					110		
Leu	Leu	Val	Leu	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	Arg	Tyr	Ser	Val	Ile	Met	Thr	Trp	Arg	Val	Cys	Ile	Thr	Leu	Ala
130						135					140				
Val	Thr	Ser	Trp	Thr	Cys	Gly	Ser	Leu	Leu	Ala	Leu	Ala	His	Val	Val
145					150				155						160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Ser	Gly	Pro	His	Glu	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Arg	Leu	Ala	Cys	Ala	Asp	Thr	Trp
			180					185					190		
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Phe	Leu	Val	Gly
		195					200					205			
Pro	Pro	Ser	Leu	Val	Leu	Val	Ser	Tyr	Ser	His	Ile	Leu	Ala	Ala	Ile
210					215						220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Ile
				245					250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Arg	His	Pro	Glu	Glu	Gln	Gln	Lys	Val
			260					265					270		
Phe	Phe	Leu	Phe	Tyr	Ser	Phe	Phe	Asn	Pro	Thr	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Gly	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ala	Leu
290					295						300				
Gly	Lys	Glu	Ser	His	Ser										
305					310										

&lt;210&gt; 1869

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g787 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1869

Met	Glu	Arg	Gln	Asn	Gln	Ser	Cys	Val	Val	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asn	Tyr	Pro	Glu	Leu	Gln	Gly	Gln	Leu	Phe	Val	Ala	Phe	Leu
		20						25					30		
Val	Ile	Tyr	Leu	Val	Thr	Leu	Ile	Gly	Asn	Ala	Ile	Ile	Ile	Val	Ile
		35				40					45				
Val	Ser	Leu	Asp	Gln	Ser	Leu	His	Val	Pro	Met	Tyr	Leu	Phe	Leu	Leu
	50				55					60					
Asn	Leu	Ser	Val	Val	Asp	Leu	Ser	Phe	Ser	Ala	Val	Ile	Met	Pro	Glu
65				70					75					80	
Met	Leu	Val	Val	Leu	Ser	Thr	Glu	Lys	Thr	Thr	Ile	Ser	Phe	Gly	Gly
			85					90						95	
Cys	Phe	Ala	Gln	Met	Tyr	Phe	Ile	Leu	Leu	Phe	Gly	Gly	Ala	Glu	Cys
		100						105					110		
Phe	Leu	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Ala	Ala	Ile	Cys	His
	115						120					125			

```

Pro Leu Asn Tyr Gln Met Ile Met Asn Lys Gly Val Phe Met Lys Leu
 130                135                140
Ile Ile Phe Ser Trp Ala Leu Gly Phe Met Leu Gly Thr Val Gln Thr
145                150                155                160
Ser Trp Val Ser Ser Phe Pro Phe Cys Gly Leu Asn Glu Ile Asn His
                165                170                175
Ile Ser Cys Glu Thr Pro Ala Val Leu Glu Leu Ala Cys Ala Asp Thr
                180                185                190
Phe Leu Phe Glu Ile Tyr Ala Phe Thr Gly Thr Phe Leu Ile Ile Leu
                195                200                205
Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Ile Arg Val Leu Phe Ala
                210                215                220
Ile Leu Lys Met Pro Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr
225                230                235                240
Cys Ala Ala His Leu Thr Ser Val Thr Leu Phe Tyr Gly Thr Ala Ser
                245                250                255
Met Thr Tyr Leu Gln Pro Lys Ser Gly Tyr Ser Pro Glu Thr Lys Lys
                260                265                270
Val Met Ser Leu Ser Tyr Ser Leu Leu Thr Pro Leu Leu Asn Leu Leu
                275                280                285
Ile Tyr Ser Leu Arg Asn Ser Glu Met Lys Arg Ala Leu Met Lys Leu
                290                295                300
Trp Arg Arg Arg Val Val Leu His Thr Ile
305                310

```

&lt;210&gt; 1870

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g788 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(331)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1870

```

Met Val Thr Glu Phe Leu Leu Leu Gly Phe Leu Leu Gly Pro Arg Ile
 1                5                10                15
Gln Met Leu Leu Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu
                20                25                30
Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu
                35                40                45
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asn Ile
                50                55                60
Ala Tyr Ala Cys Asn Thr Val Pro Gln Met Leu Val Asn Leu Leu His
65                70                75                80
Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys Met Thr Xaa Thr Phe Leu
                85                90                95
Phe Leu Ser Phe Ala His Thr Glu Cys Leu Leu Leu Val Leu Met Ser
                100                105                110
Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Phe Ile Ile
                115                120                125
Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile Thr Ser Trp Thr Cys
                130                135                140
Gly Ser Leu Leu Ala Met Val His Val Ser Leu Ile Leu Arg Leu Pro
145                150                155                160
Phe Cys Gly Pro Arg Glu Ile Asn His Phe Phe Cys Glu Ile Leu Ser
                165                170                175
Val Leu Arg Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile

```

<400>	1871														
Met	Gly	Asp	Asn	Ile	Thr	Ser	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Phe
1				5					10					15	
Pro	Val	Gly	Pro	Arg	Ile	Gln	Met	Leu	Leu	Phe	Gly	Leu	Phe	Ser	Leu
			20					25					30		
Phe	Tyr	Val	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Gly	Leu	Ile
		35					40					45			
Ser	Leu	Asp	Ser	Arg	Leu	His	Ala	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ala	Val	Val	Asp	Ile	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Arg	Met
65				70					75						80
Leu	Val	Asn	Leu	Leu	His	Pro	Ala	Lys	Pro	Ile	Ser	Phe	Ala	Gly	Arg
				85					90					95	
Met	Met	Gln	Thr	Phe	Leu	Phe	Ser	Thr	Phe	Ala	Val	Thr	Glu	Cys	Leu
			100					105					110		
Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Leu	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120				125				
Leu	Arg	Tyr	Leu	Ala	Ile	Met	Thr	Trp	Arg	Val	Cys	Ile	Thr	Leu	Ala
	130					135					140				
Val	Thr	Ser	Trp	Thr	Thr	Gly	Val	Leu	Leu	Ser	Leu	Ile	His	Leu	Val
145					150					155					160
Leu	Leu	Leu	Pro	Leu	Pro	Phe	Cys	Arg	Pro	Gln	Lys	Ile	Tyr	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Leu	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	His
			180					185					190		
Ile	Asn	Glu	Asn	Met	Val	Leu	Ala	Gly	Ala	Ile	Ser	Gly	Leu	Val	Gly
		195					200					205			
Pro	Leu	Ser	Thr	Ile	Val	Val	Ser	Tyr	Met	Cys	Ile	Leu	Cys	Ala	Ile
	210					215					220				
Leu	Gln	Ile	Gln	Ser	Arg	Glu	Val	Gln	Arg	Lys	Ala	Phe	Cys	Thr	Cys
225					230					235					240
Phe	Ser	His	Leu	Cys	Val	Ile	Gly	Leu	Phe	Tyr	Gly	Thr	Ala	Ile	Ile
				245					250					255	



Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys Lys Tyr  
 260 265 270  
 Leu Pro Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile  
 275 280 285  
 Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu Lys Arg Val Leu  
 290 295 300  
 Gly Val Glu Arg Ala Leu  
 305 310

&lt;210&gt; 1872

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g790 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1872

Met Lys Arg Gln Asn Gln Ser Cys Val Val Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Phe Ser Asn Phe Pro Glu Leu Gln Val Gln Leu Phe Gly Val Phe Leu  
 20 25 30  
 Val Ile Tyr Val Val Thr Leu Met Gly Asn Ala Ile Ile Thr Val Ile  
 35 40 45  
 Ile Ser Leu Asn Gln Ser Leu His Val Pro Met Tyr Leu Phe Leu Leu  
 50 55 60  
 Asn Leu Ser Val Val Glu Val Ser Phe Ser Ala Val Ile Thr Pro Glu  
 65 70 75 80  
 Met Leu Val Val Leu Ser Thr Glu Lys Thr Met Ile Ser Phe Val Gly  
 85 90 95  
 Cys Phe Ala Gln Met Tyr Phe Ile Leu Leu Phe Gly Gly Thr Glu Cys  
 100 105 110  
 Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Pro Val Ile Met Asn Arg Gly Val Phe Met Lys Leu  
 130 135 140  
 Val Ile Phe Ser Trp Ile Ser Gly Ile Met Val Ala Thr Val Gln Thr  
 145 150 155 160  
 Thr Trp Val Phe Ser Phe Pro Phe Cys Gly Pro Asn Glu Ile Asn His  
 165 170 175  
 Leu Phe Cys Glu Thr Pro Pro Val Leu Glu Leu Val Cys Ala Asp Thr  
 180 185 190  
 Phe Leu Phe Glu Ile Tyr Ala Phe Thr Gly Thr Ile Leu Ile Val Met  
 195 200 205  
 Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Ile Arg Val Leu Phe Ala  
 210 215 220  
 Ile Leu Lys Met Pro Ser Thr Thr Gly Arg Gln Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Thr Ser Val Thr Leu Phe Tyr Gly Thr Ala Asn  
 245 250 255  
 Met Thr Tyr Leu Gln Pro Lys Ser Gly Tyr Ser Pro Glu Thr Lys Lys  
 260 265 270  
 Leu Ile Ser Leu Ala Tyr Thr Leu Leu Thr Pro Leu Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Ser Glu Met Lys Arg Thr Leu Ile Lys Leu  
 290 295 300  
 Trp Arg Arg Lys Val Ile Leu His Thr Phe  
 305 310

&lt;210&gt; 1873

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g791 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1873

```

Met Ser Ala Asn Thr Ser Met Val Thr Glu Phe Leu Leu Leu Gly Phe
 1      5      10      15
Ser His Leu Ala Asp Leu Gln Gly Leu Leu Phe Ser Val Phe Leu Thr
      20      25      30
Ile Tyr Leu Leu Thr Val Ala Gly Asn Phe Leu Ile Val Val Leu Val
      35      40      45
Ser Thr Asp Ala Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr
      50      55      60
Leu Ser Ala Leu Glu Ile Gly Tyr Thr Ser Val Thr Val Pro Leu Leu
65      70      75      80
Leu His His Leu Leu Thr Gly Arg Arg His Ile Ser Arg Ser Gly Cys
      85      90      95
Ala Leu Gln Met Phe Phe Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys
      100      105      110
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro
      115      120      125
Leu Arg Tyr Pro Leu Leu Leu Ser His Arg Val Cys Leu Gln Leu Ala
      130      135      140
Gly Ser Ala Trp Ala Cys Gly Val Leu Val Gly Leu Gly His Thr Pro
145      150      155      160
Phe Ile Phe Ser Leu Pro Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe
      165      170      175
Phe Cys Glu Ile Gln Pro Val Leu Gln Leu Val Cys Gly Asp Thr Ser
      180      185      190
Leu Asn Glu Leu Gln Ile Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys
      195      200      205
Pro Phe Gly Leu Ile Leu Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile
      210      215      220
Phe Arg Ile Pro Ser Val Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys
225      230      235      240
Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe
      245      250      255
Ile Tyr Ile Arg Pro Lys Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu
      260      265      270
Val Ser Leu Phe Tyr Ala Val Val Thr Pro Ile Leu Asn Pro Ile Ile
      275      280      285
Tyr Ser Leu Arg Asn Thr Glu Val Lys Ala Ala Leu Lys Arg Thr Ile
      290      295      300
Gln Lys Thr Val Pro Met Glu Ile
305      310

```

&lt;210&gt; 1874

&lt;211&gt; 276

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g792 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1874

```

Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ala
 1      5      10      15
Ile Ser Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
      20      25      30

```

Leu Ser Phe Val Asp Ile Cys Phe Ala Ser Thr Met Val Pro Lys Met  
           35                          40                          45  
 Leu Val Asn Ile Gln Thr Gln Ser Lys Val Ile Thr Tyr Ala Gly Cys  
       50                          55                          60  
 Ile Thr Gln Met Cys Phe Phe Val Leu Phe Ile Val Leu Asp Ser Leu  
 65                          70                          75                          80  
 Leu Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His Pro  
                           85                          90                          95  
 Leu His Tyr Thr Val Ile Met Ser Pro Gln Leu Cys Gly Leu Leu Val  
                           100                          105                          110  
 Leu Val Ser Trp Ile Met Ser Val Leu Asn Ser Met Leu Gln Ser Leu  
                           115                          120                          125  
 Val Thr Leu Gln Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His Phe  
                           130                          135                          140  
 Phe Cys Glu Leu Asn Glu Met Ile His Leu Ala Cys Ser Asp Thr Phe  
 145                          150                          155                          160  
 Val Asn Asn Met Val Met His Phe Ala Ala Val Leu Leu Asp Gly Gly  
                           165                          170                          175  
 Pro Leu Val Gly Ile Leu Tyr Ser Tyr Cys Arg Ile Val Ser Ser Ile  
                           180                          185                          190  
 Arg Ala Ile Ser Ser Thr Gln Gly Lys Tyr Lys Ala Leu Ser Thr Cys  
                           195                          200                          205  
 Ala Ser His Leu Ser Val Val Ser Ile Phe Tyr Gly Thr Gly Leu Gly  
                           210                          215                          220  
 Val Tyr Leu Ser Ser Thr Met Thr Gln Asn Leu His Ser Thr Ala Val  
 225                          230                          235                          240  
 Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile  
                           245                          250                          255  
 Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Thr Gln Phe Phe  
                           260                          265                          270  
 Arg Gly Lys Gln  
                           275

&lt;210&gt; 1875

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g793 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1875

Ser Ile Thr Trp Glu Asn His Ser Val Leu Met Glu Phe Val Phe Leu  
   1                          5                          10                          15  
 Ala Tyr Pro Ser Cys Pro Glu Leu His Ile Leu Ser Phe Leu Gly Val  
                           20                          25                          30  
 Ser Leu Val Tyr Gly Leu Ile Ile Thr Gly Asn Ile Leu Ile Val Val  
                           35                          40                          45  
 Ser Ile His Thr Glu Thr Cys Leu Cys Thr Ser Met Tyr Tyr Phe Leu  
                           50                          55                          60  
 Gly Ser Leu Ser Gly Ile Glu Ile Cys Tyr Thr Ala Val Val Val Pro  
 65                          70                          75                          80  
 His Ile Leu Ala Asn Thr Leu Gln Ser Glu Lys Thr Ser Leu Ser Val  
                           85                          90                          95  
 Gly Cys Ala Thr Gln Met Ala Phe Phe Ile Ala Leu Gly Ser Ala Asp  
                           100                          105                          110  
 Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys

```

      115      120      125
His Pro Leu Gln Tyr Pro Leu Leu Met Thr Leu Thr Leu Cys Val His
      130      135      140
Leu Val Val Ala Ser Val Ile Ser Gly Leu Phe Leu Ser Leu Gln Leu
145      150      155      160
Val Ala Phe Ile Phe Ser Leu Pro Phe Cys Gln Ala Gln Gly Ile Glu
      165      170      175
His Phe Phe Cys Asp Val Pro Pro Val Met His Val Val Cys Ala Gln
      180      185      190
Ser His Ile His Glu Gln Ser Val Leu Val Ala Ala Ile Leu Ala Ile
      195      200      205
Ala Val Pro Phe Phe Leu Ile Thr Thr Ser Tyr Thr Phe Ile Val Ala
      210      215      220
Ala Leu Leu Lys Ile His Ser Ala Ala Gly Arg His Arg Ala Phe Ser
225      230      235      240
Thr Cys Ser Ser His Leu Thr Val Val Leu Leu Gln Tyr Gly Cys Cys
      245      250      255
Ala Phe Met Tyr Leu Cys Pro Ser Ser Tyr Asn Pro Lys Gln Asp
      260      265      270
Arg Phe Ile Ser Leu Val Tyr Thr Leu Gly Thr Pro Leu Leu Asn Pro
      275      280      285
Leu Ile Tyr Ala Leu Arg Asn Ser Glu Met Lys Gly Ala Val Gly Arg
      290      295      300
Val Leu Thr Arg Asn Cys Leu Ser Gln Asn Ser Xaa Glu
305      310      315

```

&lt;210&gt; 1876

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g794 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1876

```

Met Glu Pro Glu Asn Asp Thr Gly Ile Ser Glu Phe Val Leu Leu Gly
 1      5      10      15
Leu Ser Glu Glu Pro Glu Leu Gln Pro Phe Leu Phe Gly Leu Phe Leu
      20      25      30
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
      35      40      45
Thr Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
      50      55      60
Asn Leu Ser Phe Ala Asp Ile Cys Phe Ile Ser Thr Thr Ile Pro Lys
      65      70      75      80
Met Leu Ile Asn Ile Gln Thr Gln Ser Arg Val Ile Thr Tyr Ala Gly
      85      90      95
Cys Ile Thr Gln Met Cys Phe Phe Val Leu Phe Gly Gly Leu Asp Ser
      100      105      110
Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
      115      120      125
Pro Leu His Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu
      130      135      140
Val Leu Ala Ser Trp Met Ile Ala Ala Leu Asn Ser Leu Ser Gln Ser
145      150      155      160
Leu Met Val Leu Trp Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro His
      165      170      175
Phe Phe Cys Glu Leu Asn Gln Val Ile His Leu Ala Cys Ser Asp Thr
      180      185      190
Phe Leu Asn Asp Met Gly Met Tyr Phe Ala Ala Gly Leu Leu Ala Gly
195      200      205

```

Gly Pro Leu Val Gly Ile Leu Cys Ser Tyr Ser Lys Ile Val Ser Ser  
 210 215 220  
 Ile Arg Ala Ile Ser Ser Ala Gln Gly Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Cys Cys Thr Gly Leu  
 245 250 255  
 Gly Val Tyr Leu Thr Ser Ala Ala Thr His Asn Ser His Thr Ser Ala  
 260 265 270  
 Thr Ala Ser Val Met Tyr Thr Val Ala Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys Met Ser  
 290 295 300  
 Phe Arg Gly Lys Gln  
 305

<210> 1877

<211> 314

<212> PRT

<213> Unknown (H38g795 protein)

<220>

<223> Synthetic construct

<400> 1877

Met Glu Asn Asn Thr Glu Val Ser Glu Phe Ile Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asn Ala Pro Glu Leu Gln Val Pro Leu Phe Ile Met Phe Thr Leu Ile  
 20 25 30  
 Tyr Leu Ile Thr Leu Thr Gly Asn Leu Gly Met Ile Ile Leu Ile Leu  
 35 40 45  
 Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Leu Ala Gly Ile Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Leu  
 65 70 75 80  
 Thr Gly Leu Leu Ile Glu Asp Lys Ala Ile Ser Tyr Ser Ala Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Cys Ala Val Phe Ala Thr Val Glu Asn Tyr Leu  
 100 105 110  
 Leu Ser Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Asn Pro Leu  
 115 120 125  
 His Tyr Thr Thr Thr Met Thr Thr Arg Val Cys Ala Cys Leu Ala Ile  
 130 135 140  
 Gly Cys Tyr Val Ile Gly Phe Leu Asn Ala Ser Ile Gln Ile Gly Asp  
 145 150 155 160  
 Thr Phe Arg Leu Ser Phe Cys Met Ser Asn Val Ile His His Phe Phe  
 165 170 175  
 Cys Asp Lys Pro Ala Val Ile Thr Leu Thr Cys Ser Glu Lys His Ile  
 180 185 190  
 Ser Glu Leu Ile Leu Val Leu Ile Ser Ser Phe Asn Val Phe Phe Ala  
 195 200 205  
 Leu Leu Val Thr Leu Ile Ser Tyr Leu Phe Ile Leu Ile Thr Ile Leu  
 210 215 220  
 Lys Arg His Thr Gly Lys Gly Tyr Gln Lys Pro Leu Ser Thr Cys Gly  
 225 230 235 240  
 Ser His Leu Ile Ala Ile Phe Leu Phe Tyr Ile Thr Val Ile Ile Met  
 245 250 255  
 Tyr Ile Arg Pro Ser Ser Ser His Ser Met Asp Thr Asp Lys Ile Ala  
 260 265 270  
 Ser Val Phe Tyr Thr Met Ile Ile Pro Met Leu Ser Pro Ile Val Tyr  
 275 280 285  
 Thr Leu Arg Asn Lys Asp Val Lys Asn Ala Phe Met Lys Val Val Glu

290 295 300  
 Lys Ala Lys Tyr Ser Leu Asp Ser Val Phe  
 305 310

<210> 1878  
 <211> 315  
 <212> PRT  
 <213> Unknown (H38g796 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(315)  
 <223> Xaa = Any Amino Acid

<400> 1878  
 Met Xaa Asn Asn Ser Lys Phe Thr Asp Phe Ile Leu Val Gly Leu Thr  
 1 5 10 15  
 Asn Ala Thr Glu Leu Gln Ile Pro Leu Phe Ile Leu Phe Ile Leu Ile  
 20 25 30  
 His Leu Leu Ile Leu Thr Arg Asn Leu Glu Ile Ile Leu Leu Ile Leu  
 35 40 45  
 Leu Asp Ser Cys Leu His Ile Pro Met Tyr Phe Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Leu Leu Gly Tyr Leu Thr Val Thr Pro Arg Val Thr Ala Ser Arg  
 65 70 75 80  
 Ala Gly Tyr Leu Glu Gly Arg Arg Leu Ser Ser Ser Tyr Asn Ala Cys  
 85 90 95  
 Ala Ala Gln Met Phe Phe Phe Val Ala Leu Ala Thr Val Glu Asn Met  
 100 105 110  
 Leu Leu Thr Ser Met Ala Tyr Asp His Tyr Ile Ala Val Cys Lys Pro  
 115 120 125  
 Leu His Tyr Thr Thr Thr Thr Ile Ala Ser Val Cys Ala His Leu Val  
 130 135 140  
 Ile Gly Ser Tyr Val Cys Gly Phe Leu Asn Ala Ser Leu Arg Ile Gly  
 145 150 155 160  
 Asp Ile Phe Ser Leu Ser Phe Cys Lys Ser Asn Leu Val His His Leu  
 165 170 175  
 Phe Cys Asp Val Pro Pro Val Met Ala Val Ser Cys Ser Gly Lys His  
 180 185 190  
 Ile Ser Lys Lys Ile Leu Val Phe Met Ser Ser Phe Asn Val Phe Leu  
 195 200 205  
 Ala Leu Leu Val Ile Leu Thr Ser Tyr Leu Phe Ile Phe Ile Thr Ile  
 210 215 220  
 Leu Lys Met His Ser Ala Gln Gly His Leu Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Leu Ile Ala Val Ser Ile Phe Tyr Gly Thr Thr Ile Phe  
 245 250 255  
 Met His Leu Gln Pro Ser Ser Ser His Ser Met Asp Thr Asp Glu Met  
 260 265 270  
 Ala Ser Leu Phe Tyr Ala Val Phe Ile Ser Met Leu Asn Leu Val Phe  
 275 280 285  
 Tyr Ser Leu Arg Ser Lys Glu Val Lys Asn Ala Phe Lys Lys Ala Val  
 290 295 300  
 Glu Lys Ala Lys Phe Phe Leu Glu Leu Xaa Phe  
 305 310 315

<210> 1879  
 <211> 314  
 <212> PRT

&lt;213&gt; Unknown (H38g797 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1879

```

Met Asp Asn Ser Asn Trp Thr Ser Val Ser His Phe Val Leu Leu Gly
 1          5          10          15
Ile Ser Thr His Pro Glu Glu Gln Ile Pro Leu Phe Leu Val Phe Ser
          20          25          30
Leu Met Tyr Ala Ile Asn Ile Ser Gly Asn Leu Ala Ile Ile Thr Leu
          35          40          45
Ile Leu Ser Ala Pro Arg Leu His Ile Pro Met Tyr Ile Phe Leu Ser
          50          55          60
Asn Leu Ala Leu Thr Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Lys
65          70          75          80
Met Leu Gln Ile Ile Phe Ser Pro Thr Lys Val Ile Ser Tyr Thr Gly
          85          90          95
Cys Leu Ala Gln Thr Tyr Phe Phe Ile Cys Phe Ala Val Met Glu Asn
          100          105          110
Phe Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys His
          115          120          125
Pro Phe His Tyr Thr Met Ile Leu Thr Arg Met Leu Cys Val Lys Met
          130          135          140
Val Val Met Cys His Ala Leu Ser His Leu His Ala Met Leu His Thr
145          150          155          160
Phe Leu Met Gly Gln Leu Ile Phe Cys Ala Asp Asn Arg Ile Pro His
          165          170          175
Phe Phe Cys Asp Leu Tyr Ala Leu Met Lys Ile Ser Cys Thr Ser Thr
          180          185          190
Tyr Leu Asn Thr Leu Met Ile His Thr Glu Gly Ala Val Val Ile Ser
          195          200          205
Gly Ala Leu Ala Phe Ile Thr Ala Ser Tyr Ala Cys Ile Ile Leu Val
          210          215          220
Val Leu Arg Ile Pro Ser Ala Lys Gly Arg Trp Lys Thr Phe Ser Thr
225          230          235          240
Cys Gly Ser His Leu Thr Val Val Ala Ile Phe Tyr Gly Thr Leu Ser
          245          250          255
Trp Val Tyr Phe Arg Pro Leu Ser Ser Tyr Ser Val Thr Lys Gly Arg
          260          265          270
Ile Ile Thr Val Val Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
          275          280          285
Ile Tyr Ser Leu Arg Asn Gly Asp Val Lys Gly Gly Phe Met Lys Trp
          290          295          300
Met Ser Arg Met Gln Thr Phe Phe Phe Arg
305          310

```

&lt;210&gt; 1880

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g798 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1880

```

Met Val Asn Gln Ser Ser Pro Met Gly Phe Leu Leu Leu Gly Phe Ser
 1          5          10          15
Glu His Pro Ala Leu Glu Arg Thr Leu Phe Val Val Val Phe Thr Ser
          20          25          30
Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Val

```

```

      35              40              45
Leu Tyr Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asp Leu
  50              55              60
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
  65              70              75              80
Val Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Gly Cys Ser
      85              90              95
Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
      100              105              110
Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
      115              120              125
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
      130              135              140
Val Ala Trp Val Met Ser Leu Val Gln Ser Ile Val Gln Thr Pro Ser
      145              150              155              160
Thr Leu His Leu Pro Phe Cys Pro His Gln Gln Ile Asp Asp Phe Leu
      165              170              175
Cys Glu Val Pro Ser Leu Ile Arg Leu Ser Cys Gly Asp Thr Ser Tyr
      180              185              190
Asn Glu Ile Gln Leu Ala Val Ser Ser Val Ile Phe Val Val Val Pro
      195              200              205
Leu Ser Leu Ile Leu Ala Ser Tyr Gly Ala Thr Ala Gln Ala Val Leu
      210              215              220
Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
      225              230              235              240
Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
      245              250              255
Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe
      260              265              270
Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr
      275              280              285
Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly
      290              295              300
Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala
      305              310              315

```

&lt;210&gt; 1881

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g799 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(324)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1881

```

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
  1              5              10              15
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
      20              25              30
Leu Ser Leu Ser Met Tyr Met Val Thr Val Leu Arg Asn Leu Leu Ser
      35              40              45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Cys Phe
      50              55              60
Phe Leu Ser Lys Leu Cys Xaa Ala Asp Ile Gly Phe Thr Leu Ala Met
      65              70              75              80
Val Pro Lys Met Ile Val Asn Met Gln Ser His Ser Arg Val Ile Ser
      85              90              95

```



Tyr Glu Gly Cys Leu Thr Arg Met Ser Phe Phe Val Leu Phe Ala Cys  
 100 105 110  
 Met Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala  
 115 120 125  
 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys  
 130 135 140  
 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Pro Leu Asp Ser Gln  
 145 150 155 160  
 Leu His Ser Trp Ile Val Leu Leu Phe Thr Ile Ile Lys Asn Val Glu  
 165 170 175  
 Ile Thr Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys  
 180 185 190  
 Ser Asp Ser Val Ile Asn Asn Ile Phe Ile Tyr Phe Asp Ser Thr Met  
 195 200 205  
 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile  
 210 215 220  
 Val Pro Ser Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Gly  
 225 230 235 240  
 Phe Ser Thr Cys Gly Ser Tyr Leu Ala Val Val Cys Xaa Phe Asp Gly  
 245 250 255  
 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg  
 260 265 270  
 Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu  
 275 280 285  
 Asn Leu Phe Ile Tyr Ser Leu Gly Lys Arg Asp Ile Gln Ser Val Leu  
 290 295 300  
 Arg Arg Leu Cys Ser Arg Thr Val Glu Ser Pro Xaa Tyr Val Pro Ser  
 305 310 315 320  
 Phe Phe Leu Cys

&lt;210&gt; 1882

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g800 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1882

Met Glu Pro Glu Asn Gly Thr Arg Ile Leu Gly Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Glu Pro Glu Leu Gln Pro Val Met Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Thr Thr Val Phe Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Cys Ser Gly Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Val Asp Ile Cys Val Thr Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Thr Leu Ser Asn Ile Arg Thr Gln Ser Lys Val Ile Thr Tyr Ala Gly  
 85 90 95  
 Cys Ile Thr Gln Met Tyr Phe Phe Val Leu Phe Ile Val Leu Asp Ser  
 100 105 110  
 Leu Leu Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Val Ile Val Asn Pro Arg Leu Cys Gly Leu Leu  
 130 135 140  
 Val Leu Ala Ser Trp Ile Met Ser Ala Leu Asn Ser Leu Ile  
 145 150 155

<210> 1883  
 <211> 318  
 <212> PRT  
 <213> Unknown (H38g801 protein)

<220>  
 <223> Synthetic construct

<400> 1883

```

Met Met Ser Phe Ala Pro Asn Ala Ser His Ser Pro Val Phe Leu Leu
 1           5           10           15
Leu Gly Phe Ser Arg Ala Asn Ile Ser Tyr Thr Leu Leu Phe Phe Leu
           20           25           30
Phe Leu Ala Ile Tyr Leu Thr Thr Ile Leu Gly Asn Val Thr Leu Val
           35           40           45
Leu Leu Ile Ser Trp Asp Ser Arg Leu His Ser Pro Met Tyr Tyr Leu
           50           55           60
Leu Arg Gly Leu Ser Val Ile Asp Met Gly Leu Ser Thr Val Thr Leu
           65           70           75           80
Pro Gln Leu Leu Ala His Leu Val Ser His Tyr Pro Thr Ile Pro Ala
           85           90           95
Ala Arg Cys Leu Ala Gln Phe Phe Phe Phe Tyr Ala Phe Gly Val Thr
           100          105          110
Asp Thr Leu Val Ile Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile
           115          120          125
Cys Asp Pro Leu His Tyr Ala Leu Val Met Asn His Gln Arg Cys Ala
           130          135          140
Cys Leu Leu Ala Leu Ser Trp Val Val Ser Ile Leu His Thr Met Leu
           145          150          155          160
Arg Val Gly Leu Val Leu Pro Leu Cys Trp Thr Gly Asp Ala Gly Gly
           165          170          175
Asn Val Asn Leu Pro His Phe Phe Cys Asp His Arg Pro Leu Leu Arg
           180          185          190
Ala Ser Cys Ser Asp Ile His Ser Asn Glu Leu Ala Ile Phe Phe Glu
           195          200          205
Gly Gly Phe Leu Met Leu Gly Pro Cys Ala Leu Ile Val Leu Ser Tyr
           210          215          220
Val Arg Ile Gly Ala Ala Ile Leu Arg Leu Pro Ser Ala Ala Gly Arg
           225          230          235          240
Arg Arg Ala Val Ser Thr Cys Gly Ser His Leu Thr Met Val Gly Phe
           245          250          255
Leu Tyr Gly Thr Ile Ile Cys Val Tyr Phe Gln Pro Pro Phe Gln Asn
           260          265          270
Ser Gln Tyr Gln Asp Met Val Ala Ser Val Met Tyr Thr Ala Ile Thr
           275          280          285
Pro Leu Ala Asn Pro Phe Val Tyr Ser Leu His Asn Lys Asp Val Lys
           290          295          300
Gly Ala Leu Cys Arg Leu Leu Glu Trp Val Lys Val Asp Pro
           305          310          315

```

<210> 1884  
 <211> 307  
 <212> PRT  
 <213> Unknown (H38g802 protein)

<220>  
 <223> Synthetic construct

<400> 1884

```

Met Leu Asn Thr Thr Ser Val Thr Glu Phe Leu Leu Leu Gly Val Thr
 1           5           10           15

```

Asp Ile Gln Glu Leu Gln Pro Phe Leu Phe Val Val Phe Leu Thr Ile  
 20 25 30  
 Tyr Phe Ile Ser Val Thr Gly Asn Gly Ala Val Leu Met Ile Val Ile  
 35 40 45  
 Ser Asp Pro Arg Leu His Ser Leu Met Tyr Phe Phe Leu Gly Asn Leu  
 50 55 60  
 Ser Tyr Leu Asp Ile Cys Tyr Ser Thr Val Thr Leu Pro Lys Met Leu  
 65 70 75 80  
 Gln Asn Phe Leu Ser Thr His Lys Ala Ile Ser Phe Leu Gly Cys Ile  
 85 90 95  
 Ser Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ser Met Leu  
 100 105 110  
 Phe Ala Val Met Ala Phe Asp Leu Ser Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 Arg Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Thr Gln Met Ala Ile  
 130 135 140  
 Thr Ile Trp Val Ile Gly Phe Phe His Ala Leu Leu His Ser Val Met  
 145 150 155 160  
 Thr Ser Arg Leu Asn Phe Cys Gly Ser Asn Arg Ile His His Phe Leu  
 165 170 175  
 Cys Asp Ile Lys Pro Leu Leu Lys Leu Ala Cys Gly Asn Thr Glu Leu  
 180 185 190  
 Asn Gln Trp Leu Leu Ser Thr Val Thr Gly Thr Ile Ala Met Gly Pro  
 195 200 205  
 Phe Phe Leu Thr Leu Leu Ser Tyr Phe Tyr Ile Ile Thr Tyr Leu Phe  
 210 215 220  
 Phe Lys Thr Arg Ser Cys Ser Met Leu Cys Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Phe Met Val Val Ile Leu Phe Tyr Ala Pro Val Leu Phe  
 245 250 255  
 Thr Tyr Ile His Pro Ala Leu Glu Ser Phe Met Asp Gln Asp Arg Ile  
 260 265 270  
 Val Ala Ile Met Tyr Thr Val Val Thr Pro Val Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Gly Arg Val Ile  
 290 295 300  
 Arg Arg Leu  
 305

&lt;210&gt; 1885

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g803 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(320)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1885

Gln Pro Arg Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu Met Gly Leu  
 1 5 10 15  
 Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser Leu Ser  
 20 25 30  
 Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser Ile Leu Ala Val  
 35 40 45  
 Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn  
 50 55 60  
 Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Lys Ile

65					70					75				80
Ile	Val	Asp	Met	Gln	Ser	His	Ser	Arg	Val	Ile	Ser	Tyr	Val	Gly Cys
				85					90					95
Leu	Thr	Arg	Met	Ser	Phe	Leu	Val	Leu	Phe	Ala	Cys	Ile	Glu	Asp Met
			100					105					110	
Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Cys	Phe	Val	Ala	Ile	Cys	Arg Pro
			115				120					125		
Leu	His	Tyr	Pro	Val	Ile	Val	Asn	Ala	His	Leu	Arg	Val	Phe	Leu Val
			130			135					140			
Leu	Val	Ser	Phe	Phe	Leu	Ser	Leu	Leu	Asp	Ser	Gln	Leu	His	Ser Xaa
145					150				155					160
Ile	Val	Leu	Gln	Phe	Thr	Phe	Phe	Lys	Asn	Val	Glu	Ile	Ser	Asn Phe
				165				170						175
Val	Cys	Glu	Pro	Ser	Gln	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ser Ile
			180					185					190	
Ile	Asn	Ser	Ile	Phe	Ile	Tyr	Phe	Asp	Ser	Thr	Met	Phe	Gly	Phe Leu
			195				200					205		
Pro	Ile	Ser	Gly	Ile	Leu	Leu	Ser	Tyr	Cys	Lys	Ile	Val	Pro	Ser Ile
			210			215					220			
Leu	Arg	Ile	Ser	Thr	Ser	Asp	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr Cys
225					230					235				240
Gly	Ser	His	Leu	Ala	Leu	Val	Cys	Leu	Phe	Tyr	Gly	Ala	Gly	Ile Gly
				245					250					255
Val	Tyr	Leu	Thr	Ser	Ala	Val	Ser	Pro	Pro	Pro	Arg	Asn	Gly	Val Val
			260					265					270	
Val	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe Ile
			275				280					285		
Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Gln	Ser	Thr	Leu	Arg	Arg	Leu Leu
			290			295					300			
Ser	Arg	Thr	Val	Glu	Ser	Pro	Xaa	Ser	Val	Pro	Ser	Phe	Phe	Leu Cys
305					310					315				320

&lt;210&gt; 1886

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g804 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(328)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1886

Met	Ala	Pro	Gly	Asn	Gly	Ser	Phe	Val	Thr	Glu	Phe	Ile	Leu	Ala Gly
1				5					10					15
Leu	Thr	His	Gln	Pro	Asp	Leu	Gln	Ser	Pro	Leu	Phe	Phe	Leu	Phe Leu
			20					25					30	
Val	Ile	Tyr	Val	Val	Thr	Leu	Leu	Gly	Asn	Leu	Gly	Leu	Val	Thr Leu
			35				40					45		
Ile	Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu Phe
			50			55					60			
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Phe	Ile	Pro Lys
65					70					75				80
Met	Leu	Met	Asn	Phe	Ile	Ser	Glu	Lys	Asn	Ile	Met	Ser	Phe	Lys Gly
				85				90						95
Cys	Met	Thr	Gln	Leu	Ser	Phe	Tyr	Xaa	Phe	Phe	Val	Val	Ile	Ser Glu
			100					105					110	
Gly	Tyr	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Val	Ala	Ile	Cys Thr
			115				120					125		

Pro Leu Leu Tyr His Ile Ala Met Ser Pro Thr Val Cys Ser Ser Leu  
 130 135 140  
 Met Phe Gly Ser Tyr Leu Met Pro Phe Ser Gly Ala Met Ala His Thr  
 145 150 155 160  
 Gly Cys Met Leu Arg Leu Thr Phe Cys Asp Ala Asn Thr Ile Asp His  
 165 170 175  
 Tyr Phe Cys Asp Ile Leu Pro Leu Leu Gln Leu Ser Cys Thr Ser Thr  
 180 185 190  
 Tyr Ile Asn Glu Leu Val Val Phe Thr Val Val Gly Ile Asn Ile Ile  
 195 200 205  
 Val Pro Thr Val Thr Ile Phe Ile Ser Tyr Gly Phe Ile Leu Ser Ser  
 210 215 220  
 Ile Leu His Ile Ser Ser Lys Glu Gly Arg Ser Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala  
 245 250 255  
 Phe Met Tyr Leu Asn Pro Ser Ser Ala Gly Ser Met Asp Lys Arg Lys  
 260 265 270  
 Leu Ser Ser Val Phe Tyr Thr Asn Val Val Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Phe Ala Leu Arg Lys Ala  
 290 295 300  
 Leu Ser Ser Arg Lys Leu Xaa Xaa Val Ile Val Cys Val Cys Val Tyr  
 305 310 315 320  
 Ser His Lys Thr Gly Ile Phe Cys  
 325

&lt;210&gt; 1887

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g805 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1887

Met Gly Arg Asn Asn Leu Thr Arg Pro Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ser Arg Pro Glu Asp Gln Lys Pro Leu Phe Ala Val Phe Leu  
 20 25 30  
 Pro Ile Tyr Leu Ile Thr Val Ile Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Arg Ser Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Ile Leu Ser Phe Val Asp Ile Cys Tyr Val Thr Val Ile Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr Ile Ser Tyr Ser Glu  
 85 90 95  
 Cys Leu Thr Gln Met Tyr Phe Phe Leu Ala Phe Gly Asn Thr Asp Ser  
 100 105 110  
 Tyr Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Phe His Tyr Ile Thr Ile Met Ser His Arg Cys Cys Val Leu Leu  
 130 135 140  
 Leu Val Leu Ser Phe Cys Ile Pro His Phe His Ser Leu Leu His Ile  
 145 150 155 160  
 Leu Leu Thr Asn Gln Leu Ile Phe Cys Ala Ser Asn Val Ile His His  
 165 170 175  
 Phe Phe Cys Asp Asp Gln Pro Val Leu Lys Leu Ser Cys Ser Ser His  
 180 185 190  
 Phe Val Lys Glu Ile Thr Val Met Thr Glu Gly Leu Ala Val Ile Met

Met 1	Glu	Ile	Val	Ser 5	Thr	Gly	Asn	Glu	Thr 10	Ile	Thr	Glu	Phe	Val 15	Leu
Leu	Gly	Phe	Tyr 20	Asp	Ile	Pro	Glu	Leu 25	His	Phe	Leu	Phe	Phe 30	Ile	Val
Phe	Thr	Ala 35	Val	Tyr	Val	Phe	Ile 40	Ile	Ile	Gly	Asn	Met 45	Leu	Ile	Ile
Val	Ala 50	Val	Val	Ser	Ser	Gln 55	Arg	Leu	His	Lys 60	Pro	Met	Tyr	Ile	Phe
Leu 65	Ala	Asn	Leu	Ser 70	Phe	Leu	Asp	Ile	Leu 75	Tyr	Thr	Ser	Ala	Val 80	Met
Pro	Lys	Met	Leu 85	Glu	Gly	Phe	Leu	Gln 90	Glu	Ala	Thr	Ile	Ser 95	Val	Ala
Gly	Cys	Leu 100	Leu	Gln	Phe	Phe	Ile 105	Phe	Gly	Ser	Leu	Ala 110	Thr	Ala	Glu
Cys	Leu 115	Leu	Leu	Ala	Val	Met 120	Ala	Tyr	Asp 125	Arg	Tyr	Leu 125	Ala	Ile	Cys
Tyr	Pro 130	Leu	His	Tyr	Pro	Leu 135	Leu	Met	Gly 140	Pro	Arg	Arg 140	Tyr	Met	Gly
Leu 145	Val	Val	Thr 150	Thr	Trp	Leu	Ser	Gly	Phe 155	Val	Val	Asp 155	Gly	Leu 160	Val
Val	Ala	Leu 165	Val	Ala	Gln	Leu	Arg	Phe 170	Cys 170	Gly	Pro	Asn 175	His 175	Ile	Asp
Gln	Phe	Tyr 180	Cys	Asp	Phe	Met	Leu 185	Phe	Val 185	Gly	Leu	Ala 190	Cys 190	Ser	Asp
Pro	Arg 195	Val	Ala	Gln	Val	Thr 200	Thr	Leu	Ile 205	Leu	Ser	Val 205	Phe 205	Cys	Leu
Thr	Ile 210	Pro	Phe	Gly	Leu	Ile 215	Leu	Thr	Ser 220	Tyr	Ala	Arg 220	Ile 220	Val	Val
Ala 225	Val	Leu	Arg	Val 230	Pro	Ala	Gly	Ala	Ser 235	Arg	Arg	Arg 235	Ala 240	Phe	Ser
Thr	Cys	Ser	Ser 245	His	Leu	Ala	Val	Val 250	Thr 250	Thr	Phe	Tyr 255	Gly 255	Thr	Leu
Met	Ile	Phe 260	Tyr	Val	Ala	Pro	Ser 265	Ala 265	Val	His	Ser	Gln 270	Leu 270	Leu	Ser
Lys	Val 275	Phe	Ser	Leu	Leu	Tyr 280	Thr 280	Val	Val 285	Thr	Pro	Leu 285	Phe 285	Asn	Pro

Val Ile Tyr Thr Met Arg Asn Lys Glu Val His Gln Ala Leu Arg Lys  
 290 295 300  
 Ile Leu Cys Ile Lys Gln Thr Glu Thr Leu Asp  
 305 310 315

<210> 1889  
 <211> 188  
 <212> PRT  
 <213> Unknown (H38g807 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(188)  
 <223> Xaa = Any Amino Acid

<400> 1889  
 His Trp Lys Ile Leu Arg Arg Asn Ser Lys Met Ile His Glu Ile Ile  
 1 5 10 15  
 Xaa Thr Leu Cys Gln Ile Leu Tyr Ser Glu Asp Lys Thr Cys Tyr Ile  
 20 25 30  
 Gln Ile Gln Ser Leu Phe Cys Thr Asp Leu Glu Ile Pro Asn Phe Phe  
 35 40 45  
 Cys Glu Leu Asn Xaa Val Val His Leu Ala Cys Ser Asp Thr Phe Leu  
 50 55 60  
 Lys Asp Ile Val Arg Tyr Cys Thr Thr Met Leu Leu Ser Gly Gly Pro  
 65 70 75 80  
 Ile Ala Gly Ile Phe Tyr Ser Phe Ser Lys Ile Ile Ser Ser Ile Cys  
 85 90 95  
 Ala Ile Pro Ser Ala Gln Gly Lys His Lys Ala Phe Pro Thr Cys Val  
 100 105 110  
 Ser His Leu Ser Asn Met Ser Leu Phe Tyr Cys Arg Ser Thr Gly Leu  
 115 120 125  
 Tyr Leu Ser Phe Ala Ala Thr His Asn Ser Cys Ser Asn Ala Thr Ala  
 130 135 140  
 Ser Val Arg His Thr Val Val Lys Pro Leu Leu Asn Val Phe Ile Leu  
 145 150 155 160  
 Lys Ser Ser Asn Lys Asp Ile Lys Xaa Ala Leu Lys Val Phe Phe Arg  
 165 170 175  
 Gly Lys Gln Trp Lys His His Phe Ser Lys Ser Ala  
 180 185

<210> 1890  
 <211> 313  
 <212> PRT  
 <213> Unknown (H38g808 protein)

<220>  
 <223> Synthetic construct

<400> 1890  
 Met Glu Lys Arg Asn Leu Thr Val Val Arg Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ser Ser Ala Glu Gln Gln His Leu Leu Ser Val Leu Phe Leu  
 20 25 30  
 Cys Met Tyr Leu Ala Thr Thr Leu Gly Asn Met Leu Ile Ile Ala Thr  
 35 40 45  
 Ile Gly Phe Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 Asn Leu Ala Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Val Pro Gln

65					70					75				80
Met	Val	Val	Asn	Ile	Leu	Thr	Gly	Thr	Lys	Thr	Ile	Ser	Phe	Ala Gly
				85					90					95
Cys	Leu	Thr	Gln	Leu	Phe	Phe	Phe	Val	Ser	Phe	Val	Asn	Met	Asp Ser
			100					105					110	
Leu	Leu	Leu	Cys	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys His
			115				120						125	
Pro	Leu	His	Tyr	Thr	Ala	Arg	Met	Asn	Leu	Cys	Leu	Cys	Val	Gln Leu
			130			135					140			
Val	Ala	Gly	Leu	Trp	Leu	Val	Thr	Tyr	Leu	His	Ala	Leu	Leu	His Thr
145					150					155				160
Val	Leu	Ile	Ala	Gln	Leu	Ser	Phe	Cys	Ala	Ser	Asn	Ile	Ile	His His
				165					170					175
Phe	Leu	Cys	Asp	Leu	Asn	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp Val
			180					185					190	
Ser	Phe	Asn	Val	Met	Ile	Ile	Phe	Ala	Val	Gly	Asp	Leu	Leu	Ala Leu
		195					200					205		
Thr	Pro	Leu	Val	Cys	Ile	Leu	Val	Ser	Tyr	Gly	Leu	Ile	Phe	Ser Thr
			210			215					220			
Val	Leu	Lys	Ile	Thr	Ser	Thr	Gln	Gly	Lys	Gln	Arg	Ala	Val	Ser Thr
225					230					235				240
Cys	Ser	Cys	His	Leu	Ser	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala Ile
				245					250					255
Ala	Val	Tyr	Phe	Ser	Pro	Ser	Ser	Pro	His	Met	Pro	Glu	Ser	Asp Thr
			260					265					270	
Leu	Ser	Thr	Ile	Met	Tyr	Ser	Met	Val	Ala	Pro	Met	Leu	Asn	Pro Phe
		275					280					285		
Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Gly	Leu	Gln	Lys Met
	290				295						300			
Leu	Leu	Lys	Cys	Thr	Val	Phe	Gln	Gln						
305					310									

&lt;210&gt; 1891

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g809 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1891

Met	Asp	Gly	Gly	Asn	Gln	Ser	Glu	Gly	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5				10						15	
Met	Ser	Glu	Ser	Pro	Glu	Gln	Gln	Gln	Ile	Leu	Phe	Trp	Met	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Val	Thr	Val	Val	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35				40						45			
Ile	Ser	Ser	Asp	Ser	Arg	Leu	His	Thr	Pro	Val	Tyr	Phe	Phe	Leu	Ala
		50			55						60				
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Phe	Phe	Val	Thr	Asn	Thr	Ile	Pro	Lys
65				70					75					80	
Met	Leu	Val	Asn	Leu	Gln	Ser	His	Asn	Lys	Ala	Ile	Ser	Tyr	Ala Gly	
			85						90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Val	Ser	Leu	Val	Ala	Leu	Asp Asn	
			100					105					110		
Leu	Ile	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys Cys	
			115				120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ala	Met	Ser	Pro	Lys	Leu	Cys	Ile	Leu	Leu
		130				135					140				
Leu	Ser	Leu	Cys	Trp	Val	Leu	Ser	Val	Leu	Tyr	Gly	Leu	Ile	His Thr	
145				150						155				160	



<400> 1892															
Met	Gly	Met	Ser	Asn	Leu	Thr	Arg	Leu	Ser	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Arg	Ser	Glu	Asp	Gln	Arg	Pro	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Val	Thr	Leu	Met	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	His	Ser	Asp	Pro	Arg	Leu	Gln	Asn	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Ile	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Tyr	Thr	Thr	Val	Ile	Val	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Tyr	Ala	Glu
				85					90					95	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Val	Phe	Gly	Asn	Ile	Asp	Ser
			100					105					110		
Tyr	Leu	Leu	Ala	Ala	Met	Ala	Ile	Asn	Arg	Cys	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Phe	His	Tyr	Val	Thr	Val	Met	Asn	Arg	Arg	Cys	Cys	Val	Leu	Leu
	130					135						140			
Leu	Ala	Phe	Pro	Ile	Thr	Phe	Ser	Tyr	Phe	His	Ser	Leu	Leu	His	Val
145					150					155					160
Leu	Leu	Val	Asn	Arg	Leu	Thr	Phe	Cys	Thr	Ser	Asn	Val	Ile	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Asn	Pro	Val	Leu	Lys	Leu	Ser	Cys	Ser	Ser	Thr
			180					185					190		
Phe	Val	Asn	Glu	Ile	Val	Ala	Met	Thr	Glu	Gly	Leu	Ala	Ser	Val	Met
		195					200					205			
Ala	Pro	Phe	Val	Cys	Ile	Ile	Ile	Ser	Tyr	Leu	Arg	Ile	Leu	Ile	Ala
	210					215					220				
Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala	Gly	Lys	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Ile	Ser

```

                245                250                255
Tyr Val Tyr Leu Gln Pro Leu Ser Ser Tyr Thr Val Lys Asp Arg Ile
                260                265                270
Ala Thr Ile Asn Tyr Thr Val Leu Thr Ser Val Leu Asn Pro Phe Ile
                275                280                285
Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Gln Lys Leu Ile
                290                295                300
Asn Lys Ile Lys Ser Gln Met Ser Arg Phe Ser Thr Lys
305                310                315

```

&lt;210&gt; 1893

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g811 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1893

```

Met Leu Asn Thr Thr Ser Val Thr Glu Phe Leu Leu Leu Gly Val Thr
 1          5          10          15
Asp Ile Gln Glu Leu Gln Pro Phe Leu Phe Val Val Phe Leu Thr Ile
          20          25          30
Tyr Phe Ile Ser Val Ala Gly Asn Gly Ala Ile Leu Met Ile Val Ile
          35          40          45
Ser Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
          50          55          60
Ser Cys Leu Asp Ile Cys Tyr Ser Ser Val Thr Leu Pro Lys Met Leu
65          70          75          80
Gln Asn Phe Leu Ser Ala His Lys Ala Ile Ser Phe Leu Gly Cys Ile
          85          90          95
Ser Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Met Leu
          100          105          110
Leu Ala Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Lys Pro Leu
          115          120          125
Arg Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Thr Gln Met Ala Ile
          130          135          140
Thr Ile Trp Met Ile Gly Phe Phe His Ala Leu Leu His Ser Leu Met
145          150          155          160
Thr Ser Arg Leu Asn Phe Cys Gly Ser Asn Arg Ile Tyr His Phe Phe
          165          170          175
Cys Asp Val Lys Pro Leu Leu Lys Leu Ser Leu Ile Ser Gly Trp Leu
          180          185          190
Ser Thr Val Thr Gly Thr Ile Ala Met Gly Pro Phe Phe Leu Thr Leu
          195          200          205
Leu Ser Tyr Phe Tyr Ile Ile Thr His Leu Phe Phe Lys Thr His Ser
          210          215          220
Phe Ser Met Leu Arg Lys Ala Leu Ser Thr Cys Ala Ser His Phe Met
225          230          235          240
Val Val Ile Leu Leu Tyr Ala Pro Val Leu Phe Thr Tyr Ile His His
          245          250          255
Ala Ser Gly Thr Ser Met Asp Gln Asp Arg Ile Thr Ala Ile Met Tyr
          260          265          270
Thr Val Val Thr Pro Val Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
          275          280          285
Lys Glu Val Lys Gly Ala Phe Asn Arg Ala Met Lys Arg Trp Leu Trp
          290          295          300
Pro Lys Glu Ile Leu
305

```

&lt;210&gt; 1894

<211> 328  
 <212> PRT  
 <213> Unknown (H38g812 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(328)  
 <223> Xaa = Any Amino Acid

<400> 1894  
 Ser Val Asp Gln Val Asn Asp Ser Leu Val Thr Glu Phe Val Leu Leu  
 1 5 10 15  
 Gly Leu Ala Gln Ser Leu Glu Met Gln Phe Phe Leu Phe Leu Phe Phe  
 20 25 30  
 Ser Leu Phe Tyr Val Gly Ile Ile Leu Gly Asn Leu Phe Ile Val Phe  
 35 40 45  
 Thr Val Ile Phe Asp Pro His Leu His Ser Pro Met Tyr Ile Leu Leu  
 50 55 60  
 Ala Asn Leu Ser Leu Ile Asp Leu Ser Leu Ser Ser Thr Thr Val Pro  
 65 70 75 80  
 Arg Leu Ile Tyr Asp Leu Phe Thr Asp Cys Lys Val Ile Ser Phe His  
 85 90 95  
 Asn Cys Met Ile Gln Lys Phe Phe Ile His Val Thr Gly Gly Val Glu  
 100 105 110  
 Met Val Leu Leu Ile Val Met Glu Tyr Asp Arg Tyr Thr Ala Ile Cys  
 115 120 125  
 Lys Pro Leu His Tyr Pro Thr Ile Met Asn Pro Lys Met Cys Met Phe  
 130 135 140  
 Leu Val Ala Ala Ala Trp Val Ile Gly Val Ile His Ala Met Ser Gln  
 145 150 155 160  
 Phe Val Phe Val Ile Asn Xaa Pro Phe Cys Gly Pro Asn Asn Val Gly  
 165 170 175  
 Ser Phe Tyr Cys Asp Phe Pro Arg Val Ile Lys Leu Ala Cys Met Asp  
 180 185 190  
 Thr Tyr Gly Leu Glu Phe Val Val Thr Ala Asn Ser Gly Phe Ile Ser  
 195 200 205  
 Met Gly Thr Phe Phe Phe Leu Ile Val Ser Tyr Ile Phe Ile Leu Val  
 210 215 220  
 Thr Val Gln Arg His Ser Ser Asn Asp Leu Ser Lys Ala Phe Phe Thr  
 225 230 235 240  
 Ser Xaa Ala His Ile Thr Val Val Val Phe Phe Ala Pro Cys Met  
 245 250 255  
 Phe Leu Tyr Val Trp Pro Phe Pro Thr Lys Ser Leu Asp Lys Phe Phe  
 260 265 270  
 Ala Ile Met Asn Phe Val Val Thr Pro Val Leu Asn Pro Ala Ile Tyr  
 275 280 285  
 Thr Leu Arg Asn Lys Asp Met Lys Phe Ala Met Arg Arg Leu Asn Gln  
 290 295 300  
 His Ile Leu Asn Ser Met Glu Thr Thr Xaa His Ile Trp Leu Met Arg  
 305 310 315 320  
 Ala Gln Asp Lys Cys His Gly Pro  
 325

<210> 1895  
 <211> 272  
 <212> PRT  
 <213> Unknown (H38g813 protein)

<220>

## &lt;223&gt; Synthetic construct

&lt;400&gt; 1895

```

Met Trp Ile Asn Asn Gln Ser Ser Leu Asp Asp Phe Ile Leu Leu Gly
 1           5           10           15
Phe Ser Asp Arg Pro Trp Leu Glu Thr Pro Leu Val Ile Phe Leu Val
          20          25          30
Ala Tyr Ile Phe Ser Leu Phe Gly Asn Ile Ser Ile Ile Leu Val Ser
          35          40          45
His Leu Asp Pro Gln Leu Asp Ser Pro Met Tyr Phe Phe Val Ser Asn
          50          55          60
Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln Met
          65          70          75          80
Leu Val Asn Leu Arg Gly Pro Glu Lys Thr Ile Ser Tyr Gly Gly Cys
          85          90          95
Val Ala Gln Leu Tyr Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys Ile
          100         105         110
Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Lys Pro
          115         120         125
Leu His Tyr Pro Val Ile Met Asn His Arg Arg Cys Ile His Met Ala
          130         135         140
Ala Gly Thr Trp Ile Ser Gly Phe Ala Asn Ser Leu Val Gln Ser Thr
          145         150         155         160
Leu Thr Val Val Ala Pro Arg Cys Gly Gln Arg Val Leu Asp His Phe
          165         170         175
Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Ile Asp Ile Arg
          180         185         190
Val Asn Glu Met Glu Leu Asn Val Leu Gly Ala Leu Leu Leu Leu Met
          195         200         205
Pro Leu Thr Leu Ile Leu Gly Thr Tyr Val Phe Ile Ala Gln Ala Val
          210         215         220
Met Arg Ile Cys Ser Ala Glu Ser Arg Trp Lys Ala Phe Asn Thr Cys
          225         230         235         240
Ala Ser His Leu Leu Val Val Ser Leu Phe Tyr Phe Thr Ala Ile Ser
          245         250         255
Met Tyr Val Gln Pro Pro Ser Ser Tyr Ser His Asp Arg Gly Lys Ile
          260         265         270

```

&lt;210&gt; 1896

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g814 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1896

```

Met Asn Val Ser Glu Pro Asn Ser Ser Phe Ala Phe Val Asn Glu Phe
 1           5           10           15
Ile Leu Gln Gly Phe Ser Cys Glu Trp Thr Ile Gln Ile Phe Leu Phe
          20          25          30
Ser Leu Phe Thr Thr Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala
          35          40          45
Ile Ala Phe Val Leu Trp Cys Asp Arg Arg Leu His Thr Pro Met Tyr
          50          55          60
Met Phe Leu Gly Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser
          65          70          75          80
Thr Val Pro Lys Met Leu Val Asn Phe Leu Ser Glu Lys Lys Asn Ile
          85          90          95
Ser Phe Ala Gly Cys Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly
          100         105         110

```

```

Thr Ser Glu Cys Leu Leu Leu Thr Val Met Ala Phe Asp Gln Tyr Leu
    115                      120                      125
Ala Ile Cys Arg Pro Leu Leu Tyr Pro Asn Ile Met Thr Gly His Leu
    130                      135                      140
Tyr Ala Lys Leu Val Ile Leu Cys Trp Val Cys Gly Phe Leu Trp Phe
    145                      150                      155                      160
Leu Ile Pro Ile Val Leu Ile Ser Gln Met Pro Phe Cys Gly Pro Asn
    165                      170                      175
Ile Ile Asp His Val Val Cys Asp Pro Gly Pro Arg Phe Ala Leu Asp
    180                      185                      190
Cys Val Ser Ala Pro Arg Ile Gln Leu Phe Cys Tyr Thr Leu Ser Ser
    195                      200                      205
Leu Val Ile Phe Gly Asn Phe Leu Phe Ile Ile Gly Ser Tyr Thr Leu
    210                      215                      220
Val Leu Lys Ala Met Leu Gly Met Pro Ser Ser Thr Gly Arg His Lys
    225                      230                      235                      240
Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Cys Tyr
    245                      250                      255
Ser Ser Leu Met Val Met Tyr Val Ser Pro Gly Leu Gly His Ser Thr
    260                      265                      270
Gly Met Gln Lys Ile Glu Thr Leu Phe Tyr Ala Met Val Thr Pro Leu
    275                      280                      285
Phe Asn Pro Leu Ile Tyr Ser Leu Gln Asn Lys Glu Ile Lys Ala Ala
    290                      295                      300
Leu Arg Lys Val Leu Gly Ser Ser Asn Ile Ile
    305                      310                      315

```

&lt;210&gt; 1897

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g815 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1897

```

Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Gly Leu
    1           5           10           15
Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val
    20           25           30
Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu
    35           40           45
His Ser Pro Met Tyr Phe Leu Ala Asn Leu Ser Leu Ile Asp Leu
    50           55           60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
    65           70           75           80
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
    85           90           95
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
    100          105          110
Tyr Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu Asn Tyr Thr Thr Ile
    115          120          125
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Ala Trp Gly Ile
    130          135          140
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Pro
    145          150          155          160
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
    165          170          175
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
    180          185          190
Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile

```

<400> 1898															
Met	Thr	Leu	Pro	Ser	Asp	Asp	Ser	Thr	Val	Pro	Val	Ser	Glu	Phe	Leu
1				5					10					15	
Leu	Ile	Cys	Phe	Pro	Asn	Phe	Gln	Ser	Trp	Gln	His	Leu	Leu	Ser	Leu
			20					25					30		
Pro	Leu	Ser	Leu	Met	Phe	Leu	Leu	Ala	Met	Gly	Thr	Asn	Thr	Thr	Pro
		35					40					45			
Pro	Ile	Thr	Ile	His	Leu	Glu	Ala	Ser	Leu	His	Leu	Pro	Leu	Tyr	Tyr
	50					55					60				
Leu	Pro	Ser	Leu	Leu	Ser	Leu	Leu	Asp	Ile	Val	Leu	Cys	Leu	Thr	Val
65					70					75					80
Ile	Pro	Lys	Val	Leu	Ala	Ile	Phe	Trp	Phe	Asp	Leu	Arg	Ser	Ile	Gly
				85					90					95	
Phe	Pro	Ala	Cys	Phe	Leu	Gln	Met	Phe	Ile	Met	Asn	Ser	Phe	Leu	Pro
			100					105					110		
Met	Glu	Ser	Cys	Thr	Phe	Met	Val	Lys	Asp	Tyr	Asp	His	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Gln	Tyr	Leu	Ser	Ile	Ile	Thr	His	Gln	Phe	Val
	130					135					140				
Ala	Lys	Ala	Ser	Val	Phe	Ile	Val	Val	Gln	Asn	Ala	Leu	Leu	Leu	Ser
145					150					155					160
Pro	Val	Pro	Ile	Leu	Ser	Ala	Gln	Leu	His	Tyr	Cys	Arg	Lys	Asn	Val
				165					170					175	
Ile	Glu	Asn	Cys	Ile	Cys	Ala	Asn	Leu	Ser	Val	Ser	Arg	Leu	Ser	Cys
			180					185					190		
Asp	Asn	Phe	Thr	Leu	Asn	Arg	Leu	Tyr	Gln	Phe	Val	Ala	Gly	Trp	Thr
		195					200					205			
Phe	Leu	Gly	Ser	Asp	Phe	Ile	Leu	Ile	Phe	Leu	Ser	Tyr	Thr	Phe	Ile
	210					215					220				
Leu	Arg	Ala	Val	Leu	Arg	Phe	Lys	Val	Glu	Gly	Val	Ala	Val	Lys	Ala
225					230					235					240
Leu	Ser	Thr	Cys	Gly	Ser	His	Phe	Ile	Leu	Ile	Leu	Phe	Phe	Ser	Ile
				245					250					255	

Leu Leu Val Val Val Leu Thr Asn Val Ala Arg Lys Lys Val Pro Met  
 260 265 270  
 Asp Ile Leu Ile Leu Phe Asn Val Leu His Pro Phe Ser Pro Pro Ala  
 275 280 285  
 Leu Asn Pro Ile Ile Cys Gly Phe Gln Thr Lys Glu Leu Lys Lys Glu  
 290 295 300  
 Phe Xaa Lys Leu Leu Gln Arg Gly Leu Xaa Lys His Gly Arg  
 305 310 315

&lt;210&gt; 1899

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g817 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(317)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1899

Lys His Asn His Thr Ala Val Thr Lys Val Thr Glu Phe Ile Leu Met  
 1 5 10 15  
 Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro Leu Phe Gly Leu Phe  
 20 25 30  
 Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn Leu Gly Met Val Ile  
 35 40 45  
 Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Lys His Leu Ala Ile Thr Asp Leu Gly Tyr Ser Thr Val Ile Gly Pro  
 65 70 75 80  
 Gln Met Met Phe Ser Glu Thr Ser Tyr Val His Lys Glu His Asn Phe  
 85 90 95  
 Phe Tyr Asn Trp Tyr Ala Asn His Arg Ala Arg Phe Glu Arg Asn Ile  
 100 105 110  
 Ile Ser His Arg Gly Ile Leu Ser Ala Thr Asn Asn Glu Pro Tyr Lys  
 115 120 125  
 Pro Ile Thr Lys Gln Leu Leu Asn Pro Ile Ile Met Pro Glu Lys Ile  
 130 135 140  
 Arg Glu Glu Gln Ile Thr Val Pro Glu Leu Asp Lys Thr Cys Ala Pro  
 145 150 155 160  
 Leu Phe Leu Lys Arg Lys Xaa Val Lys Thr Val Ser Thr Asn Pro Asp  
 165 170 175  
 Thr Thr Asn Asn Cys His Gly Glu Gly Thr Ala Lys Met Xaa Ile Leu  
 180 185 190  
 Arg Ser Glu Lys Lys Lys Ile Thr Ile Ile Lys Ala Met Thr Ala Gly  
 195 200 205  
 Thr Asn Met Leu Ile Ser Leu Ser Ile Val Leu Ile Ser Tyr Met Phe  
 210 215 220  
 Ile Leu Val Ala Asn Leu Arg Met Asn Ser Arg Lys Gly Arg Tyr Lys  
 225 230 235 240  
 Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Met Phe Tyr  
 245 250 255  
 Gly Thr Leu Leu Phe Ile Tyr Leu Gln Pro Lys Ser Ser His Thr Leu  
 260 265 270  
 Ala Ile Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Leu Ile Pro Met  
 275 280 285  
 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala  
 290 295 300  
 Leu Lys Arg Thr Leu Thr Asn Arg Phe Lys Ile Pro Ile

305

310

315

<210> 1900  
 <211> 220  
 <212> PRT  
 <213> Unknown (H38g818 protein)

<220>  
 <223> Synthetic construct

<221> VARIANT  
 <222> (1)...(220)  
 <223> Xaa = Any Amino Acid

<400> 1900  
 Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Met Val Pro  
 1 5 10 15  
 Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Pro Tyr Ala  
 20 25 30  
 Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu  
 35 40 45  
 Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys  
 50 55 60  
 Arg Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe  
 65 70 75 80  
 Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His  
 85 90 95  
 Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Ser Asn Val Glu Ile Ala  
 100 105 110  
 Asn Phe Val Tyr Glu Pro Ser Gln Leu Leu Asn Leu Asp Cys Ser Asp  
 115 120 125  
 Thr Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Met Phe Gly Phe  
 130 135 140  
 Leu Pro Ile Ser Gly Ile Leu Leu Ser Xaa Tyr Lys Ile Val Pro Ser  
 145 150 155 160  
 Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ala Thr  
 165 170 175  
 Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly Thr Gly Ile  
 180 185 190  
 Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val  
 195 200 205  
 Ala Ala Ser Val Met Tyr Ala Val Val Thr Pro Met  
 210 215 220

<210> 1901  
 <211> 311  
 <212> PRT  
 <213> Unknown (H38g819 protein)

<220>  
 <223> Synthetic construct

<400> 1901  
 Met Glu Lys Ser Asn Asn Ser Thr Leu Phe Ile Leu Leu Gly Phe Ser  
 1 5 10 15  
 Gln Asn Lys Asn Ile Glu Val Leu Cys Phe Val Leu Phe Leu Phe Cys  
 20 25 30  
 Tyr Ile Ala Ile Trp Met Gly Asn Leu Leu Ile Met Ile Ser Ile Thr  
 35 40 45  
 Cys Thr Gln Leu Ile His Gln Pro Met Tyr Phe Phe Leu Asn Tyr Leu  
 50 55 60



```

Ser Leu Ser Asp Leu Cys Tyr Thr Ser Thr Val Thr Pro Lys Leu Met
65          70          75          80
Val Asp Leu Leu Ala Glu Arg Lys Thr Ile Ser Tyr Asn Asn Cys Met
          85          90          95
Ile Gln Leu Phe Thr Thr His Phe Phe Gly Gly Ile Glu Ile Phe Ile
          100          105          110
Leu Thr Gly Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
          115          120          125
His Tyr Thr Ile Ile Met Ser Arg Gln Lys Cys Asn Thr Ile Ile Ile
          130          135          140
Val Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu Leu
          145          150          155          160
Thr Ile Phe Val Pro Phe Cys Gly Pro Asn Glu Ile Asp His Tyr Phe
          165          170          175
Cys Asp Val Tyr Pro Leu Leu Lys Leu Ala Cys Ser Asn Ile His Met
          180          185          190
Ile Gly Leu Leu Val Ile Ala Asn Ser Gly Leu Ile Ala Leu Val Thr
          195          200          205
Phe Val Val Leu Leu Leu Ser Tyr Val Phe Ile Leu Tyr Thr Ile Arg
          210          215          220
Ala Tyr Ser Ala Glu Arg Arg Ser Lys Ala Leu Ala Thr Cys Ser Ser
          225          230          235          240
His Val Ile Val Val Val Leu Phe Phe Ala Pro Ala Leu Phe Ile Tyr
          245          250          255
Ile Arg Pro Val Thr Thr Phe Ser Glu Asp Lys Val Phe Ala Leu Phe
          260          265          270
Tyr Thr Ile Ile Ala Pro Met Phe Asn Pro Leu Ile Tyr Thr Leu Arg
          275          280          285
Asn Thr Glu Met Lys Asn Ala Met Arg Lys Val Trp Cys Cys Gln Ile
          290          295          300
Leu Leu Lys Arg Asn Gln Leu
305          310

```

&lt;210&gt; 1902

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g820 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1902

```

Arg Asn Phe Ser Phe Leu Glu Ile Ser Phe Thr Thr Val Cys Ile Pro
1          5          10          15
Arg Phe Leu Gly Ala Ile Ile Thr Arg Asn Lys Thr Ile Ser Tyr Asn
          20          25          30
Asn Cys Ala Ala Gln Leu Phe Phe Ile Phe Met Gly Val Thr Glu
          35          40          45
Phe Tyr Ile Leu Thr Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys
          50          55          60
Lys Pro Leu His Tyr Thr Ser Ile Met Asn Arg Lys Leu Cys Thr Leu
          65          70          75          80
Leu Val Leu Cys Ala Trp Leu Ser Gly Phe Pro Thr Ile Phe Pro Pro
          85          90          95
Leu Met Leu Leu Leu Gln Leu Asp Tyr Cys Ala Ser Asn Val Ile Asp
          100          105          110
His Phe Ala Cys Asp Tyr Phe Pro Leu Leu Gln Leu Ser Cys Ser Asp
          115          120          125
Thr Trp Leu Leu Glu Val Ile Gly Phe Tyr Phe Ala Leu Val Thr Leu
          130          135          140
Leu Phe Thr Leu Ala Leu Val Ile Leu Ser Tyr Met Tyr Ile Ile Arg

```

```

145          150          155          160
Thr Ile Leu Arg Ile Pro Ser Ala Ser Gln Arg Lys Lys Ala Phe Ser
          165          170          175
Thr Cys Ser Ser His Met Ile Val Ile Ser Ile Ser Tyr Gly Ser Cys
          180          185          190
Ile Phe Met Tyr Ala Asn Pro Ser Ala Lys Glu Lys Ala Ser Leu Thr
          195          200          205
Lys Gly Ile Ala Ile Leu Asn Thr Ser Val Ala Pro Met Leu
          210          215          220

```

&lt;210&gt; 1903

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g821 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1903

```

Ile Ile Leu Cys Phe Phe Ile Ile Gly Asn Ser Gln Asp Asn Ser Gln
 1          5          10          15
Met Thr Leu Met Asp Asn Ile Ser Glu Val Thr Glu Phe Val Leu Val
          20          25          30
Gly Leu Thr Asp Val Leu Glu Leu Gln Val Pro Leu Phe Ile Ile Phe
          35          40          45
Thr Val Ile Tyr Leu Thr Thr Leu Val Gly Asn Phe Gly Met Ile Met
          50          55          60
Leu Ile Leu Leu Asp Ser Arg Leu His Ile Pro Met Tyr Phe Phe Leu
65          70          75          80
Gly Lys Leu Ser Leu Val Asp Ser Val Cys Ala Cys Leu Val Thr Gly
          85          90          95
Ser Tyr Ile Cys Gly Leu Phe Gln Ser Ser Ile His Val Ala Phe Thr
          100          105          110
Phe His Leu Ser Phe Cys His Ser Asn Val Val Asn His Phe Phe Cys
          115          120          125
Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Ile Tyr Ala His
          130          135          140
Glu Ile Val Leu Phe Ile Leu Ala Ala Phe Asn Ile Phe Phe Thr Leu
145          150          155          160
Leu Ile Ile Leu Asn Ser Tyr Val Phe Ile Phe Ile Ala Ile Leu Arg
          165          170          175
Met His Ser Ala Glu Gly Gln Lys Lys Val Phe Ser Thr Cys Ala Tyr
          180          185          190
His Leu Thr Thr Val Ser Ile Phe Tyr Gly Thr Ile Thr Phe Met Tyr
          195          200          205
Leu Gln Pro Ser Ser Gly His Ser Met Asp Thr Asp Lys Ile Ser Ser
          210          215          220
Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Val Tyr Ser
225          230          235          240
Leu Arg Asn Lys Glu Val Gln Ser Ala Phe Lys Val Val Ile Gly Lys
          245          250          255
Ala Lys Ser Ser Leu Gly Leu Ala Tyr Tyr Leu
          260          265

```

&lt;210&gt; 1904

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g822 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(316)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1904

Trp	Xaa	Pro	Val	Phe	Asn	Gln	Ser	Ala	Pro	Leu	Gln	Phe	Val	Phe	Arg
1				5					10					15	
Val	Phe	Thr	Thr	Val	Pro	Glu	Phe	Gln	Val	Leu	Leu	Phe	Leu	Leu	Phe
		20						25					30		
Leu	Leu	Phe	Tyr	Leu	Met	Ile	Leu	Cys	Gly	Asn	Thr	Ala	Ile	Ile	Trp
		35				40						45			
Val	Val	Cys	Thr	Tyr	Ser	Val	Leu	Arg	Thr	Pro	Met	Tyr	Phe	Phe	Leu
		50				55					60				
Ser	Asn	Leu	Ser	Phe	Val	Glu	Ile	Cys	Tyr	Thr	Thr	Val	Val	Val	Pro
65					70					75					80
Leu	Met	Leu	Ser	Asn	Ile	Phe	Gly	Ala	Gln	Lys	Pro	Ile	Pro	Leu	Ala
				85					90					95	
Gly	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Leu	Thr	Leu	Gly	Gly	Ala	Asp
			100					105					110		
Cys	Phe	Leu	Leu	Ala	Ile	Val	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
			115				120					125			
His	Pro	Leu	His	Tyr	Arg	Leu	Ile	Met	Thr	Cys	Asn	Leu	Cys	Val	Gln
		130				135					140				
Met	Leu	Gly	Gly	Ala	Val	Gly	Leu	Ala	Leu	Phe	Leu	Ser	Leu	Gln	Leu
145					150					155					160
Thr	Ala	Leu	Ile	Phe	Thr	Leu	Pro	Phe	Cys	Gly	Tyr	Arg	Gln	Glu	Ile
				165					170					175	
Asn	His	Phe	Leu	Cys	Asp	Val	Pro	Pro	Val	Leu	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Ala	Ile	Arg	Val	His	Gln	Ala	Val	Leu	Tyr	Val	Val	Ser	Ile	Leu	Val
		195				200						205			
Leu	Thr	Val	Pro	Phe	Leu	Leu	Ile	Cys	Val	Ser	Tyr	Val	Phe	Ile	Thr
		210				215					220				
Cys	Ala	Ile	Leu	Ser	Ile	Arg	Ser	Ala	Glu	Gly	Arg	His	Gln	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys
				245					250					255	
Cys	Ala	Leu	Ala	Tyr	Leu	His	Pro	Gln	Ser	Ser	Ser	Ser	Ala	Asp	Glu
			260					265					270		
Asp	Arg	Gln	Phe	Ala	Leu	Val	Tyr	Thr	Phe	Ile	Thr	Pro	Leu	Leu	Asn
		275					280					285			
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Glu
		290				295					300				
Lys	Ser	Ala	Gln	Tyr	Gln	Arg	Asp	Thr	Xaa	Val	Leu				
305					310						315				

&lt;210&gt; 1905

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g823 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(312)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1905

Met Xaa Asn Ser Arg Glu Ala Ser Gln Phe Ile Phe Leu Gly Leu Ser

1	5	10	15
Asn Val Pro Glu Leu Gln Val Pro Phe Ile Met Phe Val Leu Ile			
20	25	30	
Tyr Leu Ile Asn Val Val Gly Asn Leu Gly Met Ile Ile Leu Ile Leu			
35	40	45	
Trp Tyr Ser Gln Leu His Asn Pro Met Tyr Phe Phe Phe Ser Asn Leu			
50	55	60	
Ser Leu Val Asp Phe Phe Tyr Ser Ser Val Val Thr Pro Lys Val Met			
65	70	75	80
Thr Gly Leu Leu Arg Glu Asp Lys Ile Ile Ser Tyr Thr Val Trp Ala			
85	90	95	
Thr Gln Thr Phe Phe Ser Asp Ser Phe Ala Ser Val Val Asn Leu Leu			
100	105	110	
Leu Ala Leu Met Ala Ser Gly His Tyr Ala Ala Val Cys Lys Pro Leu			
115	120	125	
His Tyr Thr Thr Thr Met Met Thr Ser Val Cys Thr Cys Leu Ala Ile			
130	135	140	
Gly Xaa Tyr Val Gly Gly Phe Leu Asn Ala Ser Ile His Thr Gly Glu			
145	150	155	160
Thr Phe Ser Leu Phe Cys Met Ser Ser Glu Val His His Phe Phe Cys			
165	170	175	
Glu Val Pro Ala Val Met Ala Leu Ser Cys Ser Asp Arg His Val Asn			
180	185	190	
Val Val Val Leu Val Tyr Val Thr Ser Phe Asn Ile Leu Phe Ala Leu			
195	200	205	
Leu Val Ile Leu Ile Ser Tyr Leu Leu Met Phe Ile Thr Ile Leu Lys			
210	215	220	
Met His Ser Thr Ala Gly Tyr Gln Lys Ala Leu Ala Ile Cys Ala Ser			
225	230	235	240
His Leu Thr Ala Val Ala Ile Phe Tyr Gly Thr Ile Ile Phe Met His			
245	250	255	
Ile Gln Pro Ser Ser His Ser Ile Asp Thr Asp Lys Ile Ala Ala			
260	265	270	
Val Phe Tyr Thr Ile Val Phe Pro Met Val Asn His Val Val Xaa Arg			
275	280	285	
Leu Lys Asn Lys Val Lys Ser Thr Phe Lys Lys Ile Val Glu Lys Val			
290	295	300	
Lys Leu Ser Leu Gly Leu Xaa Val			
305	310		

&lt;210&gt; 1906

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g824 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1906

Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Leu Gly	
1	5
Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu	
20	25
Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu	
35	40
Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg	
50	55
Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg	
65	70
Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln	
85	90
	95

Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu  
 100 105 110  
 Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 115 120 125  
 Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala  
 130 135 140  
 Met Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His  
 145 150 155 160  
 Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro  
 165 170 175  
 His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly  
 180 185 190  
 Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile  
 195 200 205  
 Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly  
 210 215 220  
 Ala Asn Leu Ala Met Gly Leu Thr Gln Ser Arg Arg Lys Val Phe Ser  
 225 230 235 240  
 Thr Cys Ser Ser His Arg Leu Val Val Ser Leu Phe Phe Gly Thr Ala  
 245 250 255  
 Ser Ile Thr Asn Asn Arg Pro Gln Ala Gly Ser Ser Glu Thr Thr Asp  
 260 265 270  
 Arg Val Ile Ser Leu Phe Asn Thr Val Ile Thr Pro Met Leu Asn Pro  
 275 280 285  
 Ile Ile Asn Thr His Gly Asn Lys Asp Val Arg Arg Ala Leu Arg Tyr  
 290 295 300  
 Leu Val Lys Arg Arg Arg Pro Ser Pro Gly Arg Gly Ser Gly  
 305 310 315

&lt;210&gt; 1907

&lt;211&gt; 311

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g825 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1907

Met Glu Thr Lys Asn Tyr Ser Ser Ser Thr Ser Gly Phe Ile Leu Leu  
 1 5 10 15  
 Gly Leu Ser Ser Asn Pro Lys Leu Gln Lys Pro Leu Phe Ala Ile Phe  
 20 25 30  
 Leu Ile Met Tyr Leu Leu Thr Ala Val Gly Asn Val Leu Ile Ile Leu  
 35 40 45  
 Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro  
 65 70 75 80  
 Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Ile Ile Ser Tyr Val  
 85 90 95  
 Gly Cys Leu Ile Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp  
 100 105 110  
 Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys  
 115 120 125  
 Asn Pro Leu His Tyr Asp Val Met Lys Pro Trp His Cys Leu Leu  
 130 135 140  
 Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg  
 145 150 155 160  
 Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys  
 165 170 175  
 His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp

<400> 1909															
Met	Glu	Ile	Lys	Asn	Tyr	Ser	Ser	Ser	Thr	Ser	Gly	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Ser	Ser	Asn	Pro	Gln	Leu	Gln	Lys	Pro	Leu	Phe	Ala	Ile	Phe
			20					25					30		
Leu	Ile	Met	Tyr	Leu	Leu	Ala	Ala	Val	Gly	Asn	Val	Leu	Ile	Ile	Pro
		35					40					45			

Ala Ile Tyr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser Asn Leu Ser Phe Met Asp Ile Cys Phe Thr Thr Val Ile Val Pro  
 65 70 75 80  
 Lys Met Leu Val Asn Phe Leu Ser Glu Thr Lys Val Ile Ser Tyr Val  
 85 90 95  
 Gly Cys Leu Ala Gln Met Tyr Phe Phe Met Ala Phe Gly Asn Thr Asp  
 100 105 110  
 Ser Tyr Leu Leu Ala Ser Met Ala Ile Asp Arg Leu Val Ala Ile Cys  
 115 120 125  
 Asn Pro Leu His Tyr Asp Val Val Met Lys Pro Arg His Cys Leu Leu  
 130 135 140  
 Met Leu Leu Gly Ser Cys Ser Ile Ser His Leu His Ser Leu Phe Arg  
 145 150 155 160  
 Val Leu Leu Met Ser Arg Leu Ser Phe Cys Ala Ser His Ile Ile Lys  
 165 170 175  
 His Phe Phe Cys Asp Thr Gln Pro Val Leu Lys Leu Ser Cys Ser Asp  
 180 185 190  
 Thr Ser Ser Ser Gln Met Val Val Met Thr Glu Thr Leu Ala Val Ile  
 195 200 205  
 Val Thr Pro Phe Leu Cys Ile Ile Phe Ser Tyr Leu Arg Ile Met Val  
 210 215 220  
 Thr Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Trp Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Gly Ser His Leu Thr Ala Val Ala Leu Phe Tyr Gly Ser Ile  
 245 250 255  
 Ile Tyr Val Tyr Phe Arg Pro Leu Ser Met Tyr Ser Val Val Arg Asp  
 260 265 270  
 Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro  
 275 280 285  
 Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Arg Gly Leu Lys Lys  
 290 295 300  
 Leu Gln Asp Arg Ile Tyr Arg  
 305 310

&lt;210&gt; 1910

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g828 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(313)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 1910

Met Pro Asn Lys Ile Val Val Thr Glu Phe Phe Leu Thr Arg Pro Asp  
 1 5 10 15  
 Gly Leu Gln Lys Ser Phe Gln Val Ala Val Phe Leu Leu Pro Asp Ala  
 20 25 30  
 Cys His Thr Leu Xaa Leu Ser Leu Gly Thr Xaa Ile Ile Ile Thr Met  
 35 40 45  
 Thr Leu Leu Asp Thr Arg Met Gln Thr Ser Met Tyr Leu Phe Leu Gln  
 50 55 60  
 Asn Leu Ser Cys Leu Glu Ile Trp Phe Gln Thr Val Ile Val Pro Lys  
 65 70 75 80  
 Met Leu Leu Asn Ile Ala Met Gly Thr Lys Thr Val Ser Phe Ala Gly  
 85 90 95  
 Cys Ile Thr Gln Asp Phe Phe His Ile Phe Leu Gly Ala Thr Glu Phe

```

      100      105      110
Phe Leu Leu Thr Ala Met Ala Tyr Asp Gln Tyr Ile Ala Ile Cys Lys
      115      120      125
Pro Leu His Tyr Pro Met Leu Ile Ser Ser Arg Val Cys Thr Gln Leu
      130      135      140
Ile Leu Thr Cys Trp Leu Leu Gly Phe Ser Phe Ile Ile Met Pro Val
145      150      155
Ile Leu Thr Ser Gln Leu Pro Phe Cys Asp Thr His Ile Lys His Phe
      165      170      175
Phe Cys Asp Tyr Thr Pro Leu Met Glu Val Val Cys Ser Gly Pro Lys
      180      185      190
Val Leu Glu Met Val Asp Phe Thr Leu Ala Leu Val Ala Leu Phe Gly
      195      200      205
Thr Leu Val Leu Ile Thr Leu Ser Tyr Val Gln Ile Ile Gln Thr Ile
      210      215      220
Val Arg Ile Pro Ala Val Gln Glu Arg Lys Lys Ala Phe Ser Thr Cys
225      230      235
Ser Ser His Val Ile Met Val Thr Met Cys Tyr Asp Ser Cys Phe Phe
      245      250      255
Met Tyr Val Lys Pro Ser Pro Gly Lys Trp Val Asp Val Asn Lys Gly
      260      265      270
Val Ser Leu Ile Asn Thr Ile Ile Ala Pro Leu Leu Asn Pro Phe Ile
      275      280      285
Cys Thr Leu Arg Asn Gln Gln Val Lys Gln Val Met Lys Asp Leu Val
      290      295      300
Arg Lys Met Thr Leu Ser Glu Asn Lys
305      310

```

&lt;210&gt; 1911

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Unknown (H38g829 protein)

&lt;220&gt;

&lt;223&gt; Synthetic construct

&lt;400&gt; 1911

```

Met Asn Ser Glu Asn Leu Thr Arg Ala Ala Val Ala Pro Ala Glu Phe
 1      5      10      15
Val Leu Leu Gly Ile Thr Asn Arg Trp Asp Leu Arg Val Ala Leu Phe
      20      25      30
Leu Thr Cys Leu Pro Val Tyr Leu Val Ser Leu Leu Gly Asn Met Gly
      35      40      45
Met Ala Leu Leu Ile Arg Met Asp Ala Arg Leu His Thr Pro Met Tyr
      50      55      60
Phe Phe Leu Ala Asn Leu Ser Leu Leu Asp Ala Cys Tyr Ser Ser Ala
65      70      75      80
Ile Gly Pro Lys Met Leu Val Asp Leu Leu Leu Pro Arg Ala Thr Ile
      85      90      95
Pro Tyr Thr Ala Cys Ala Leu Gln Met Phe Val Phe Ala Gly Leu Ala
      100      105      110
Asp Thr Glu Cys Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
      115      120      125
Ala Ile Arg Asn Pro Leu Leu Tyr Thr Thr Ala Met Ser Gln Arg Leu
      130      135      140
Cys Leu Ala Leu Leu Gly Ala Ser Gly Leu Gly Gly Ala Val Ser Ala
145      150      155      160
Phe Val His Thr Thr Leu Thr Phe Arg Leu Ser Phe Cys Arg Ser Arg
      165      170      175
Lys Ile Asn Ser Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser
      180      185      190

```